

Farlow, William Gilson
A list of works on
North American Fungi

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No. 25.



A LIST OF WORKS ON NORTH AMERICAN FUNGI.

By W. G. FARLOW AND WILLIAM TRELEASE.

CAMBRIDGE, MASS. :

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1887.



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LIST OF WORKS ON NORTH AMERICAN FUNGI, WITH THE EXCEPTION OF SCHIZOMYCETES, PUBLISHED BEFORE 1887.

By W. G. FARLOW AND WILLIAM TRELEASE.

The following list has been prepared from a card-catalogue of authors used in indexing the species of fungi found in the United States and the northern parts of North America. The list does not include works on *Schizomycetes*, as that group is now studied principally by specialists, and includes forms the greater part of which belong rather to the department of medicine than to botany proper, and the literature of the subject is already well indexed elsewhere. The present list aims to include mainly works of greater or less value to working botanists, and it would be difficult and, perhaps, unnecessary to add the very large number of papers of a popular and indefinite character relating to fungi not specifically named which are scattered through the various agricultural, horticultural, and other journals. Neither has it been thought best to enumerate the general and, to botanists, well-known treatises which include fungi as well as other orders of plants, unless special reference is made to North American species, or unless they contain figures of our species not easily found elsewhere. As it is, the present list, which is the first of the kind yet published, will show that the general belief of botanists not specially studying the subject that very little has been written on North American mycology is by no means correct. The means for obtaining good summaries of the current literature have, within the last few years, been much improved; and, in order to complete the record of the past as far as possible, botanists are requested to send corrections of and additions to the present list, which may be issued in a supplement. Thanks are due to a number of authors who have kindly consented to revise the list of their works for publication.

Where the pages of reprints differ from the original they are put in parenthesis. The dates after authors' names indicate the date of birth, and death is indicated by a cross (†).

CAMBRIDGE, February 23, 1887.

W. G. FARLOW.

1. Agricultural Reports.

For papers on fungi in the reports of the Department of Agriculture up to the year 1876 consult the following:—

A general index of the Agricultural Reports of the Patent Office for twenty-five years from 1837–1861, and of the Department of Agriculture for fifteen years from 1862–1876. 8°. pp. 225. Washington. 1879.

Subsequent papers under authors' names.

2. **American Naturalist**, The. Monthly, illustr. Vol. I.–XX. March, 1867–Jan. 1887. To be continued.

Devoted to all branches of natural history. The first nine volumes published at Salem, Mass., X.–XI. at Boston, XII.–XX. at Philadelphia. For X.–XI. there was an associate editor for botany, G. L. Goodale, and since 1881, XV., C. E. Bessey. Articles on fungi given here under authors' names. Reviews of mycological works by the editors.

Andrews, Charles Lowell.

3. Contributions to the Mycology of Massachusetts. *Proc. Boston Soc. Nat. Hist.* V. pp. 321–323. April, 1856.

Remarks on the study of fungi and their economical importance, followed by a list of 36 species collected by the author.

4. **Arctic Manual**. See MANUAL.

Arthur, Joseph Charles. Lowville, N. Y. 11 Jan. 1850. See BESSEY, C. E. See BOTANICAL GAZETTE.

5. — The interpretation of Schweinitzian and other early descriptions. *Am. Nat.* XVII. 77, 78. Jan. 1883.

6. — Descriptions of Iowa *Uromyces*. *Bull. Minnesota Acad. Nat. Sci.* II. 13–37. Minneapolis. Printed 31 May, 1883.

Descriptions of 12 species, one of them new, *U. acuminatus*, with index of synonyms and host-plants.

7. — American *Accidia* on *Ranunculi*. *Bot. Gaz.* IX. 177. Oct. 1884.

Note on *accidia* on *Ranunculus abortivus* and *Anemone nemorosa*.

8. — Preliminary list of Iowa *Uredineae*. *Bull. Iowa Agr. College*, Dept. of Botany. 151–171. Nov. 1884. Issued Jan. 1885.

Enumerates 134 species, and describes 8 new species with index of host-plants. See no. 65. Names of new species in *Jour. Myc.* I. 47.

9. — Memorandum of Iowa *Ustilagineae*. *Bull. Iowa Agr. College*, Dept. of Botany. 172–174. Nov. 1884. Issued Jan. 1885.

Enumerates 25 species, of which 2 are new. This paper and the preceding were subsequently issued together as a separate paper with original paging.

10. — Hollyhock disease and the cotton plant. *Science*, V. 2. Jan. 2, 1885. Also *Jour. Myc.* I. 27. Feb. 1885.

Reports experiments by Floutright to show that *Puccinia Malvacearum* will not grow on the cotton plant.

11. — The *Accidium* of *Adoxa*. *Bot. Gaz.* X. 369. Sept. 1885. Also *Jour. Myc.* I. 141. Nov. 1885.

States that *Accidium albescent* is an annual.

12. — Report of the Botanist to the New York Agricultural Experiment Station. 3d *Annual Rept. N. Y. Agr. Exp. Station* for 1884. pp. 353–385. Fig. 5. 8°. Albany.

Notices of pear blight, *Fusicladium pyrinum*, *F. dendriticum*, *Morthiera Mespilli*, *Podosphaera tridactyla*, *Sphaeropsis Cydoniae*, *Erysia deformans*, peach yellows, gummosis, *Gloeosporium phomoides*, *Ustilago segetum*, *Clematis* disease, etc. For *Clematis* disease see also Country Gentleman, 25 June, 1885. This report was distributed about 1 Sept. 1885. See Rev. in *Bot. Centralblatt*, XXIV. 335.

Arthur, Joseph Charles.

13. A new larval *Entomophthora*. *Bot. Gaz.* XI. 14-17. Pl. 2. Jan. 1886.

Describes and figures *Ent. Phytonomi* on *P. punctatus*. See also *Jour. Myc.* II. 35, and 4th *Rept. N. Y. Agr. Exp. Station*. See next title.

14. — Report of the Botanist to the New York Agricultural Experiment Station. 4th *Ann. Rept. N. Y. Agr. Exp. Station* for 1885. 241-265. Fig. 10. 1st edition, Rochester, issued 30 Jan. 1886; 2d edition, Albany, Dec. 1886.

Contains accounts of *Mortheria Mespili* v. *Cydoniae Septoria Lactucae*, *Peronospora gangliiformis*, *Oidium fructigenum*, *Entomophthora Phytonomi*, pear blight, the rotting of tomatoes, etc. The second edition has separate paging, but is accompanied by a table referring to original paging.

Atkinson, Isaac Edmondson. Baltimore, Md. 23 Jan. 1846.

15. The botanical relations of *Trichophyton tonsurans*. *N. Y. Med. Jour.* XXVIII. 561-575 (1-17). Fig. 3. New York, Dec. 1878.

Account of germination of spores and formation of cyst-like cells.

Austin, Coe Finch. Closter, N. J., 20 June, 1831. †Closter, N. J., 18 March, 1880.

16. *Agaricus* with the odor of chlorine. *Torr. Bull.* VI. 278, 279, and 298. Dec. 1878.

Characters of *Agaricus chlorinosmus*, Peck, with notes on its odor.

Bagnis, Carlo. 1854. †Aisone, 6 Aug. 1879.

17. *Le Puccinie*. 4°. pp. 83. Pl. 1-11. Rome. 1876. Ext. *Att. Reale Acad. Lincei*. 2 ser. Vol. III. Part 2. 641-721.

The author reduces the number of species of *Puccinia* to 51, and gives the synonyms of forms recognized by him, including a number of American species.

Bailey, Jacob Whitman. Ward, Mass., 29 April, 1811. †West Point, N. Y., 26 Feb. 1857.

18. Curious microscopic fungus, *Craterium pyrifforme*. *Am. Jour. Sci. Arts*, XLII. 195. 1842.

Reports finding this species on rocks at West Point.

Banning, Mary Elizabeth. Talbot Co., Md. 1832.

19. Notes on the fungi of Maryland. *Field and Forest*, III. 42-47, 59-63. Sept.—Oct. 1877.

20. — Notes on Fungi. *Bot. Gaz.* V. 5-10, 23. Jan.—Feb. 1880.

General remarks on the occurrence and habit of a number of species.

21. — New species of fungi found in Maryland. *Bot. Gaz.* VI. 165, 166. Jan. 1881.

Characters of 4 *Agarics*.

22. — Maryland Fungi. *Bot. Gaz.* VI. 200-202, 210-213. April—May, 1881.

Notes on a number of *Hymenomycetes* and *Gasteromycetes*.

Barnes, Charles Reid. Madison, Jefferson Co., Indiana, 7 Sept. 1858. See *BOTANICAL GAZETTE*.

23. Oospores in *Capsella*. *Bot. Gaz.* IX. 194. Dec. 1884.

Finds oospores of *Cystopus candidus* in *Capsella*.

Bary, (Heinrich) Anton DE. Frankfort-on-the-Main, 26 Jan. 1831.

24. Recherches sur le développement de quelques champignons parasites. Mémoire pour servir de réponse à une question proposée par l'Académie des Sciences en 1861 et pour servir de supplément aux travaux sur la question des générations dites spontanées. *Ann. Sci. Nat. Bot.* 4 ser. XX. 5-148 (1-144). Pl. 1-13. 1863.

Detailed account of observations on the structure and development of *Cystopus*, *Peronospora*, and different *Uredineae* followed by an "Essai d'un synopsis des *Péronosporées*," with full descriptions of all known species, including *P.*

viticola from the United States. This monograph appeared originally in the *Annales*, and is not a French translation from the German as is sometimes stated in this country.

25. — Ueber den sogenannten Brenner (Pech) der Reben. *Ann. der Oenologie*, IV. Heft 2 (1-3). 1873.

Reprint only seen. A communication to the editor giving an account of *Sphaeloma ampelium*, with a note on the *Naemaspora ampelici* of Engelmann in America.

Other papers of interest, although not treating strictly of North American fungi, are: "Die gegenwärtig herrschende Kartoffelkrankheit, ihre Ursache und ihre Verhütung," 8°, pp. 75, pl. 1, Leipzig, 1861; and "Researches into the nature of the potato-fungus, *Phytophthora infestans*," 8°, pp. 33, fig. 8, London, 1876; and *Jour. Royal Agr. Soc. England*, XII. part 1.

Berkeley, Miles Joseph. Biggin, Parish Oundle, Northampton, England, 1 April, 1803. See COOKE, M. C., CURTIS, M. A., KLOTZSCH, F. J., LEA, T. G., DE SEYNES, J., WYMAN, J.

26. — Descriptions of exotic fungi in the collection of Sir W. J. Hooker, from memoirs and notes of J. F. Klotzsch, with additions and corrections. *Ann. Nat. Hist.* III. 375-401. 1839.

Review of species in Klotzsch's papers in *Linnaea*, VII. 193, and VIII. 478. Notes on 42 species from North America.

27. — Supplement to descriptions of exotic fungi in *Annals of Natural History*, vol. III. 322 and 375. *Ann. Nat. Hist.* VII. 451-454. 1841.

Principally notes on species collected by Richardson in British America, with descriptions of 3 new species.

28. — Descriptions of fungi collected by R. B. Hinds, Esq., principally in the islands of the Pacific. *London Jour. Bot.* I. 447-457 (1-11). Pl. 14, 15. 1842.

Enumerates 7 species from the Columbia River, Sitka, and California, and describes *Polyporus Columbiensis*.

29. — Notices of fungi in the herbarium of the British Museum. *Ann. Mag. Nat. Hist.* X. 369-385. Pl. 9-12. Jan. 1843.

Contains a description of *Polyporus Floridanus* from Florida, and also species from Jamaica.

30. — On *Agaricus crinitus*, L., and some allied species. *Trans. Linn. Soc.* XX. 109-112. Pl. 9. 18 Feb. 1845.

Contains a description and figure of *Lentinus tener*.

31. — Decades of Fungi. *London Jour. Bot. and Hooker's Jour. Bot.*

The following parts relate to North American species: Nos. 74-100 in *London Jour. Bot.* IV. 299-313 (35-49), pl. 11, 12, fig. 1-5, 1845, collected, with few exceptions, by T. G. Lea in Ohio; pl. 11 represents *Cyclomyces Greenei* from Massachusetts; — nos. 111-140, l. c. VI. 312-326 (1-15), 1847, all from Ohio, collected by Lea, are mostly *Hymenomycetes* with a new genus *Polypezia*; — nos. 201-240, *Hooker's Jour. Bot.* I. 97-104 (1-8), 234-239 (105-110), 1849, have the title "North and South Carolina Fungi"; by the Rev. M. J. Berkeley and Rev. M. A. Curtis; — no. 486, l. c. VI. 227 (2), 1854, describes *Dothidea vorax* from South Carolina. The species given in the Decades are most of them to be found also in Lea's Catalogue and Berkeley's Notices of North American Fungi, q. v., and a few of the figures are in Berkeley's Introduction to Cryptogamic Botany. See also CURTIS, M. A.

32. — On the white rust of cabbages. *Jour. Royal Hort. Soc.* III. 265-271. Aug. 1848.

Gives a figure of conidia of *Uredo (Cystopus) Amaranthi*, Schweinitz.

33. — Indian Bread or Tuckahoe. *Gardeners' Chronicle*, p. 829. 16 Dec. 1848.

Includes a note of Prof. Ellet on the chemical properties of tuckahoe.

34. — Enumeration of some fungi from St. Domingo. *Ann. Mag. Nat. Hist.* 2 ser. IX. 192-203. Pl. 8. March, 1852.

Fungi collected by A. Sallé, including 67 species, of which 20 are new, and 1 new genus. Species may be expected to occur in Florida.

- Berkeley, Miles Joseph.**
 35. On two new genera of fungi. *Trans. Linn. Soc. XXI.* 149-154. Pl. 19, fig. 4. June, 1852.
 Has description of *Corynites Ravenelii*, with figure.
36. — *Ravenelia*. *Gard. Chron.* 26 Feb. 1853. p. 132.
 In an editorial without title there is a note and figure of *R. glandulaeformis*.
37. — On some entomogenous *Sphaeriae*. *Jour. Linn. Soc. I.* 157-159. Pl. 1. 4 Nov. 1856.
 Includes descriptions and figures of 5 new species of *Cordyceps* from the United States, collected by H. W. Ravenel.
38. — Introduction to Cryptogamic Botany. 8^o. pp. 604, with 127 illustrations. London. 1857.
 Incidental references to American species of fungi, with figures of some of them. In a few instances the figures are the earliest published records of the species.
39. — On some new fungi. *Trans. Linn. Soc. XXII.* 129-131. Pl. 25. 5 May, 1857.
 Description and figure of *Mitremyces Ravenelii*.
40. — An account of the plants collected by Dr. Walker in Greenland and Arctic America during the expedition of Sir Francis McClintock, R.N., in the yacht Fox. By J. D. Hooker, M.D. *Jour. Linn. Soc. V.* 79-89. 1861. Read 21 June, 1860.
 On p. 86, a list of 8 species, all but one *Agaricini*, repeated in *Manual Arctic Expedition*, part 2, p. 526.
41. — On some new fungi from Mexico. *Jour. Linn. Soc. IX.* 423-425. Pl. 12. 1867. Read 15 Nov. 1866.
 Describes 6 new species sent by Curtis, collected by Botteri near Orizaba, and a new genus *Wynnea*, of which a figure is given. The species are attributed to Berkeley and Curtis.
42. — Notices of North American Fungi. *Grevillea*, I. 33-39, Sept. 1872, nos. 101-125; 49-55, Oct. 1872, nos. 126-149; 65-71, Nov. 1872, nos. 150-175; 97-102, Jan. 1873, nos. 176-200; 145-150, April, 1873, nos. 201-225; 161-166, May, 1873, nos. 226-250; 177-180, June, 1873, nos. 251-275; — II. 3-7, July, 1873, nos. 276-300; 17-20, Aug. 1873, nos. 301-319; 33-35, Sept. 1873, nos. 320-327; 49-53, Oct. 1873, nos. 328-350; 65-69, Nov. 1873, nos. 351-375; 81-84, Dec. 1873, nos. 376-401; 97-101, Jan. 1874, nos. 451-475; 153-157, April, 1874, nos. 476-500; 177-181, June, 1874, nos. 402-414; — III. 1-17, Sept. 1874, nos. 415-450 and 501-525; 49-64, Dec. 1874, nos. 526-600; 97-112, March, 1875, nos. 601-681; 145-160, June, 1875, nos. 682-750; — IV. 1-16, Sept. 1875, nos. 751-813; 45-52, Dec. 1875, nos. 814-844; 93-108, March, 1876, nos. 845-902; 141-162, June, 1876, nos. 903-1005.
 This series is a continuation of the "Centuries of North American Fungi," by Berkeley and Curtis (see below), in which 100 species are described. The present series begins with 101, and the numbers represent new species described by Berkeley and Curtis, a small number of which had been previously published in Berkeley's "Decades of Fungi" and "Contributions to North American Mycology," by Berkeley and Curtis. Besides the numbered species, a large number of others are enumerated without numbers. See CURTIS, M. A., and TUCKERMAN, E.
43. — Enumeration of the fungi collected during the Arctic expedition, 1875-76. *Jour. Linn. Soc. XVII.* 13-17. 1880. Read 7 March, 1878.
 Enumeration of 24 species, 7 described as new.
44. — *Hypsilophora destructor*. *Gard. Chron.* XI. new ser. 299. Fig. 41. 8 March, 1879.
 Description and figure of *Hypsilophora (Dacrymyces) destructor* on pear stems, and reference to 2 other species.

45. — Truffles in California. *Gard. Chron.* XXI. new ser. 833. 28 June, 1884.
 Short note on the occurrence of truffles in California.
 — and **Broome, C. E.**
46. Enumeration of the fungi of Ceylon. Part 2. *Jour. Linn. Soc. XIV.* 29-140. Pl. 2-10. 3 April, 1873 (1875).
 Includes descriptions of *Artocreas Micheneri*, p. 73, and *Patellaria appianata*, p. 108, from the United States, and notes on several species described in Cuban Fungi.
 — and **Curtis, M. A.**
47. Contributions to the Mycology of North America. *Am. Jour. Sci. Arts.* 2 ser. VIII. 401-403, Nov. 1849; IX. 171-175, March, 1850; X. 185-188, Sept. 1850.
 Continued from *Am. Jour. Sci. Arts*, VI. 353. See CURTIS, M. A. Enumeration of 100 species, numbered 31-130, of which 26 are new, and one new genus *Arrhytidia*. Most of the species are repeated in Notices of North American Fungi, for which see above, no. 42.
48. — Descriptions of new species of fungi collected by the U. S. Exploring Expedition under C. Wilkes, U.S.N., Commander. *Am. Jour. Sci. Arts*, XI. 2 ser. 93-95. Jan. 1851.
 Describes 9 species, all from the Pacific Islands. American species of this expedition were published elsewhere. See CURTIS and BERKELEY.
49. — Exotic fungi from the Schweinitzian herbarium, principally from Surinam. *Jour. Acad. Nat. Sci.* Philadelphia. II. new ser. 277-294. Pl. 25. April, 1853.
 Includes 7 species from the United States.
50. — Centuries of North American fungi. *Ann. Mag. Nat. Hist.* 2 ser. XII. 417-435 (1-19), Dec. 1853; 3 ser. IV. 284-296 (1-13), Oct. 1859.
 Descriptions of 100 new species of *Hymenomyces* and *Polyporei*, with notices of a few others. About half of them are repeated in Notices of North American Fungi. No. 42.
51. — A commentary on the Synopsis Fungorum in Americâ Boreali mediâ degentium, by L. D. de Schweinitz. *Jour. Acad. Nat. Sci.* Philadelphia. New ser. III. 205-224. 1856.
 Critical notes on 326 species, principally *Hymenomyces*, from the Schweinitz herbarium, including descriptions of 2 new species, *Polyporus crocosporus*, B. and C., and *P. cervinotitens*, Schw.
52. — Characters of new fungi, collected in the North Pacific Exploring Expedition by Charles Wright. *Am. Acad. Arts and Sci.* Boston. IV. 111-130. 14 Dec. 1858.
 Includes 8 new species from California and N. W. coast.
53. — Fungi Cubenses. *Jour. Linn. Soc. X.* 280-341, 341-392. 1869.
 Part 1, including *Hymenomyces*, was read 2 May, 1867. Part 2, including *Gasteromyces*, *Phycomyces*, *Coniomyces*, *Hyphomyces*, and *Ascomyces*, was read 16 Jan. 1868. This work gives frequent references to localities in the United States where Cuban species occur.
 — and **Desmazières, J. B. H. J.**
54. On some moulds referred by authors to *Fumago* and on certain allied or analogous forms. *Jour. Royal Hort. Soc.* IV. 243-260 (3-19). Fig. 11. 1849.
 Describes 5 *Capnodia* and *Glenospora Curtisii*, and figures also *Scorias spongiosa*.
 — and **Montagne, C.**
55. Sixième centurie de plantes cellulaires nouvelles, tant indigènes qu'exotiques. Décade 7. *Ann. Sci. Nat. Bot.* 3 ser. XI. 235-246. 1849.
 Includes descriptions of *Trametes rigida* and *Egidia protracta* from the United States.

Berlese, Augusto Napoleone, and **Vogolino**, P. Padua, 21 Oct. 1864. See **SACCARDO**, P. A.

56. Sopra un nuovo genere di funghi Sferopsidei. *Att. Soc. Venet. Trent.* X. 176-205 (2-32). Pl. 2, 3. Padua. 1887.

Account of a new genus, *Macrophoma*, with descriptions of 32 species from the United States; figures of 3 species, formerly included in *Phoma* and *Sphaeropsis*. The reprint is dated 1886, but the volume of the *Atti*, 1887.

Bertoloni, Antonio. Sarzana, 11 Feb. 1775. †Bologna, 17 April, 1869.

57. *Miscellanea Botanica*, XVII. 22. Pl. 2. Fig. 2. Bologna. 1857.

Gives a description and figure of *Telephora lobata* from Alabama.

Bessey, Charles Edwin. See **AMERICAN NATURALIST**. Milton, Wayne Co., O., 21 May, 1845.

58. On injurious fungi. The Blights, *Erysiphei*. 7th Biennial Rept. Iowa Agr. College. 8^o. pp. 185-204 (1-20). Pl. 1, 2. Dec. 1877.

A description of the species known in the United States, with synopsis and figures of 10 species.

59. — *Simblum rubescens*, Gerard, in Iowa. *Torr. Bull.* VIII. 126, Nov. 1881. *Am. Nat.* XVI. 42, Jan. 1882.

Species found in Iowa.

60. — A sketch of the progress of botany in the United States in 1880. *Am. Nat.* XV. 947-955. Dec. 1881.

Includes an enumeration of United States fungi described in 1880.

61. — The diseases of plants. *Trans. Iowa State Hort. Soc.* XVI. 85-98. 1882.

Gives, pp. 93-98, an account of several diseases caused by fungi.

62. — Some observations on the action of frost upon leaf-cells. *Proc. Am. Ass. Adv. Sci.* XXXI. 464, 465. Aug. 1882.

Finds that leaf-cells attacked by the mycelium of *Aecidium Frazini* have less power of resisting cold than other cells.

63. — A new species of insect-destroying fungus. *Am. Nat.* XVII. 1280-1281, 1286. Dec. 1883.

Description of *Entomophthora Calopteni*.

64. — An enormous puff-ball. *Am. Nat.* XVIII. 530. May, 1884.

Reports the finding by Prof. R. E. Call in New York State of an immense specimen of *Lycoperdon giganteum*.

65. — Bulletin of the Iowa Agricultural College, issued by the Dept. of Botany, Nov. 1884. 8^o. pp. 109-174. Cedar Rapids, Iowa.

Contains the following papers on fungi by C. E. Bessey: The Wheat Smut, pp. 118-126, fig. 3, 4; Smut of Indian Corn, pp. 127-129, fig. 5, 6; Ergot, pp. 130-132, fig. 7; Preliminary lists of Cryptogams, pp. 133-150, including between 200-300 fungi on pp. 134, 135-148. For other papers in this bulletin, see **ARTHUR**, J. C. Sent to press Nov. 1884, but not issued until about Jan. 1885, as we are informed by the author.

66. — The abundance of ash rust. *Am. Nat.* XIX. 886-887. Sept. 1885.

Notes the abundance of *Aecidium Frazini* in Nebraska.

67. — Injurious fungi in their relation to the diseases of plants. *Am. Pomolog. Soc. Session* 1885. pp. 35-43.

A general account of the properties of injurious fungi and the diseases caused by them, followed by a list of 41 species which occur in the United States.

68. — The rust of the ash tree. *Am. Nat.* XX. 806. Sept. 1886.

Reports a marked absence of *Aecidium Frazini* in Nebraska and Iowa in 1886.

Billings, John Shaw. Switzerland Co., Indiana, 12 April, 1838.

68^a. The study of minute fungi. *Am. Nat.* V. 323-329. Fig. 75. Aug. 1871.

A popular account of *Valsa stellulata*, Fr., with figure, and directions for studying fungi.

68^b. — The genus *Hysterium* and some of its allies. *Am. Nat.* V. 626-631. Pl. 11. Oct. 1871.

General account of the structure of the genus, followed by notes on the spores of 54 species, with figures of the spores of 21 species. The specimens examined were principally from the herbaria of Schweinitz, Ravenel, and Curtis.

— and **Curtis**, E.

69. Report of results of examinations of fluids of diseased cattle, with reference to cryptogamic growths. *Rept. Commissioner Agr. on Diseases of Cattle in U. S.* 4^o. pp. 174-190, with plate. Washington. 1871.

Account of cultures made with fluids of animals infected with contagious pleuro-pneumonia and Texas fever, with plate of forms found, some of them bacteria.

— and **Frost**, C. C.

70. United States geological exploration of the fortieth parallel, Clarence King, geologist in charge. Botany by Sereno Watson aided by Prof. Daniel C. Eaton and others. 4^o. pp. liii., 525. Pl. 1-40. Washington. 1871.

On pp. 413, 414 is a list of 14 fungi, including 3 new *Pucciniae*. The *Aecidia* and *Pucciniae* were determined by J. S. BILLINGS; the other fungi by C. C. FROST.

Bonorden, Hermann Friedrich. Herford, 28 Aug. 1801.

71. Zur kenntniss einiger der wichtigsten gattungen der *Coniomyceten* und *Cryptomyceten*. 4^o. pp. 63. Pl. 1-3. Halle. 1860. Extr. *Abhandl. Nat. Ges. Halle*, V. 167-229. 1860.

Mentions 7 species of *Uredineae* from North America.

72. — Die zweite deutsche Nordpolarfahrt in den jahren 1869 und 1870 unter führung des Kapitän Karl Koldewey, herausgegeben von dem Verein für die deutsche Nordpolarfahrt in Bremen. 8^o. Leipzig. 1874.

The fungi are given in vol. II. 88-96. The fleshy fungi by Bonorden, pp. 88-90, include 4 species and some undetermined forms. The endophytic fungi by L. FUECKEL include 13 species, all but one new, pp. 90-96, with pl. 1. Names of species given in *Arctic Manual*, part 2, p. 585.

Boso, Louis (Augustin Guillaume). Paris, 20 Jan. 1759. †Paris, 10 July, 1828.

73. Mémoire sur quelques espèces de champignons des parties méridionales de l'Amérique Septentrionale. *Gesell. Natur. Freunde, Mag.* 4^o. V. 83-89 (1-7). Pl. 4-6. Berlin. 1811.

Separate copies of this paper are very rare. Fifteen species are described, all but one with figures: *Boletus atrovirens*; *B. hydnatinus*; *Agaricus pinarius*; *Ag. (Panus) dorsalis*; *Ag. (Lentinus) chama*; *Clathrus columnatus* (copied in Corda, Anleitung, and Nees, System); *Morchella caroliniana* (*Gyromitra*); *Phallus duplicatus* (copied in Corda and Nees); *Satyrus rubicundus* (copied in Corda?); *Lycoperdon (Cauloglossum) transversarium* (in Nees); *L. heterogeneum* (*Mitromyces lutescens*); *L. cyathiforme*, *Uperhiza* (*Hyperrhiza carolinensis*); *Tubercularia carnea* (*Peridermium*); *Tremella* (*Leotia*) *stipitata* (copied in Nees).

74. **Botanical Bulletin**. Edited by J. M. Coulter. 8^o. Crawfordsville, Ind. Vol. I. Nov. 1875—Nov. 1876.

Published monthly in parts of 4 pages. In Nov. 1876 the name was changed to the following.

75. **Botanical Gazette**. Continuation of *Bot. Bulletin*. See above. Vol. II.—XI. Nov. 1876—Dec. 1886. To be continued.

Vol. II. ended Oct. 1877, and vol. III. began Jan. 1878. II. and III. have 8 pages in each number; IV.—VII. 12;

VIII.-X., 16; XI., 24 pages; some numbers more. From I.-X. there is an index with every second volume, and a general index to vols. I.-X. appeared in 1886. Later volumes are illustrated. The editors of vols. II.-VI. were J. M. and M. S. Coulter. Since then, J. M. Coulter, C. R. Barnes, and J. C. Arthur. Articles on fungi from this journal appear here under authors' names.

Brendel, Frederick. Erlangen, Germany, 20 Jan. 1820.

76. Flora Peoriana. Die vegetation im clima von Mittel-Illinois. Természetráji Füzetek. V. Parte 2-4. pp. 299-405. 1882. A Musaeo Nationali Hungarico edito. Budapest. 1882.

Separate edition with pp. 107, large 8°. On p. 94 (392) is an enumeration of 39 species of fungi without notes.

Britton, Elizabeth G. See BULLETIN TORREY CLUB.

Britton, Nathaniel Lord. New Dorp, Staten Island, N. Y., 15 Jan. 1859.

77. Geological survey of New Jersey. A preliminary catalogue of the flora of New Jersey. 8°. pp. 233. New Brunswick, N. J. 1881.

This work was distributed among botanists, bound and interleaved, with the request that the copies be returned with corrections and comments to be embodied in the final publication. A list of about 950 fungi, determined by J. B. Ellis, is given on pp. 167-203.

Brongniart, Adolphe Théodore. Paris, 14 Jan. 1801. †Paris, 18 Feb. 1876.

78. Essai d'une classification naturelle des champignons ou tableau méthodique des genres rapportés jusqu'à présent à cette famille. 8°. pp. 99. Pl. 1-8. Paris. 1825.

This is a reprint of the article Mycologie in *Dictionnaire des Science Naturelles*, XXXIII. 492-588. 1824. The plates are taken from Turpin, *Végétaux acotyléons*. On p. 70 (559) is a reference to *Calostoma cinnabarinum*, Desv. = *Mitromyces cinnabarinus*, Schw.

Broome, Christopher Edmund. Berkhamstead, Hertford, 24 July, 1812. †Bath, England, 15 Nov. 1886. See BERKELEY, M. J.

Brown, A. E.

79. Diseased *Vaccinium*. Torr. Bull. VI. 164. July, 1877.

Note on deformity of fruit due to *Exobasidium Vaccinii*.

Brown, Robert. See SMITH, W. G.

80. **Bulletin of the TORREY BOTANICAL CLUB**, Vol. I.-XIII. Jan. 1870—Dec. 1886. To be continued. Monthly. 8°. New York. Illustr.

There is an index of I.-V. at the end of V. Vol. VI. extends from Jan. 1875 to Dec. 1879, with index. Since then the volumes are annual and have an index. Editors, 1870-1881, W. H. Leggett; 1882, W. H. Leggett and W. R. Gerard; 1883-1885, W. R. Gerard; 1886, E. G. Britton and F. J. H. Merrill. Devoted to all branches of botany. The articles on fungi here given under authors' names.

Bundy, W. F.

81. A partial list of the fungi of Wisconsin, with descriptions of new species. *Geology of Wisconsin, Survey of 1873-79*. 4°. I. 396-401. 1883.

Enumerates more than 300 species of 76 genera with notes on localities. Two new species described. The types of this paper have been lost, and there are no means of verifying species named.

Burnett, Swan Moses. New Market, Tenn., 16 March, 1847.

82. *Otomyces purpureus* (Wreden) in the human ear. *Archives of Otiology*, X. 319-326. Dec. 1881. Also trans. in *Zeitschr. für Ohrenheilkunde*, XI. 69-95. 1882.

Account of the fungus, including a note by W. G. Farlow.

Burrill, Thomas Jonathan. Pittsfield, Mass., 25 April, 1839.

83. Aggressive parasitism of fungi. *Trans. Illinois State Hort. Soc.* 1873, VII. 217-221. Chicago. 1874.

84. — Lettuce mould and leaf-blight. *Trans. Illinois State Hort. Soc.* 1875, IX. 139-144. Fig. 5. Chicago. 1876.

An account of injury done by *Peronospora gangliiformis* in Illinois, and of lilac blight, pea blight, *Verbena* mould, and rose mildew, with figures of the fungi which cause them.

85. — Upon parasitic fungi. *Bull. Illinois State Lab. Nat. Hist.* I. part 1, 52-59. Pl. 1-4. Bloomington. Dec. 1876.

General account of fungus diseases, with specific account of those caused by *Peronosporae* and *Perisporiaceae*, with figures of several species.

85. — Injurious fungi. *Trans. Illinois State Hort. Soc.* X. 213-220. 1876.

An account of the harm done by several species, *Peronospora riticola*, *Phragmidium*, bunt in wheat, disease of Austrian pine, etc.

87. — Cherry leaf-blight. *Trans. Illinois State Hort. Soc.* XI. 134-136. 1877.

A popular account of *Podosphaera Kunzei* and the ravages caused by it.

88. — First annual report upon useful and noxious plants. *Trans. Dept. Agr. Illinois*, XVII. 560-568. Springfield, Ill. 1880. Reprint, 8°, pp. 9. Springfield. 1880.

Contains a chapter on "Fungi in living plants," giving general account of growth and classification of fungi, with the effects they produce on other plants.

89. — The Bacteria. 8°. pp. 65. Fig. 2. Pl. 1. Springfield, Ill. 1882.

Taken from 11th Rept. *Illinois Industrial Univ.* pp. 93-157. Besides Bacteria, this paper contains *Saccharomycetes*, pp. 62-65.

90. — Notes on parasitic fungi. *Agr. Review*, 86-92. New York. Nov. 1882.

Gives an account of apple-scab, *Fusicladium dendriticum*, orange rust of blackberry, *Caeoma luminatum*, and blackberry cane rust.

91. — An orchard scourge. *Trans. Miss. Valley Hort. Soc.* I. 202-207. Indianapolis. 1883.

Account of ravages due to *Fusicladium dendriticum*.

92. — The grape rots. *Trans. Illinois State Hort. Soc.* XVII. 42-45. 1883.

Notes the occurrence of the true *Sphaceloma ampelinum* in Illinois, with account of some other fungi. See no. 96.

93. — Broom-corn rust. *Prairie Farmer*, LVI. 532. Chicago. Aug. 1884.

Notice, with 2 figures, of an unnamed *Chaetostroma* on *Sorghum*.

94. — Parasitic fungi of Illinois. Part 1. *Uredineae*. *Bull. Illinois State Laboratory*, II. 141-255. Peoria. 1885.

A full account of the *Uredineae* of Illinois, with synopsis of genera, descriptions and synonymy of species, with critical notes and index of species and hosts. Also given in 12th Rept. *Illinois Industrial Univ.* pp. 93-152, without host-index, and some notes.

95. — The *Uredineae* of Illinois. A list of the species. *Proc. Am. Soc. Micros.* VIII. 93-102 (1-10). 1885.

A list of species, with introduction taken substantially from Parasitic fungi of Illinois. See title above.

96. — Grape Rots. *Am. Pomolog. Soc., Session* 1885. pp. 47-49.

Notes the occurrence of the true *Sphaceloma ampelinum* in Illinois, with an account of its action compared with *Phoma uvicola*. See no. 92.

97. — Orange rust of blackberry leaves. *Prairie Farmer*, LVII. 762. Chicago. 4 Nov. 1885.

Account, with figure, of the spermogonia of *Caeoma nitens*. Substance of article and figure given in paper by SEYMOUR, A. B., q. v.

Burrill, Thomas Jonathan.
98. Vegetable pathology. *Trans. Illinois State Hort. Soc.* XIX. 218-226. 1885.

General remarks on disease in plants.

— and **Seymour, A. B.**

99. New species of *Uredineae*. *Bot. Gaz.* IX. 187-191. Dec. 1884.

Describes 13 species from Illinois. On p. 191, 4 other species described by SEYMOUR, A. B.

Bushberg Catalogue. See ENGELMANN, George.

Calkins, William Wirt. Farm Ridge, La Salle Co., Ill., 29 May, 1842.

100. Notes on Florida fungi. *Jour. Myc.* II. 6, 7, Jan. 1886; 23, Feb. 1886; 42, April, 1886; 53, 54, May, 1886; 70, June, 1886; 80, 81, July, 1886; 89-91, Aug. 1886; 104-106, Sept. 1886; 126-128, Nov. 1886.

Part 3 of this series is called "The leaf fungi of Florida"; part 4, "Cryptogamic Botany of a Florida log"; parts 7-9 give a list of species determined by J. B. Ellis.

101. — *Polyporus officinalis*, Fr. *Jour. Myc.* II. 107. Sept. 1886.

Notes the occurrence of this species in Michigan.

Cist, Jacob.

102. Notice of the *Melolontha* or May-bug. *Am. Jour. Sci. Arts*, VIII. 269-271. Pl. 4. Aug. 1824.
Gives a note and figure of an unnamed species of *Cordyceps* on *Melolontha*.

Clayton, John. Fulham, England, 1685. †15 Dec. 1773. See GRONOVIVS, J. F.

Cooke, Mordecai Cubitt. Horning, Norfolk, England, 12 July, 1825. See EDWARDS, A. M. See ELLIS, J. B. See GREVILLEA. See RAVENEL and REHM, exsiccata in supplement. See STEVENSON, W. C.

103. Decades of Maine Fungi. *Proc. Soc. Nat. Hist.*, Portland, I. 179-185. Fig. 9. 1862.

Descriptions of 21 species of *Uredineae*, 2 of them new.

104. — Handbook of British Fungi, with full descriptions of all the species, and illustrations of the genera. 8°. 2 vol. pp. 981. Pl. 7, col. and fig. 408. London. 1871.

After each species it is stated whether it occurs also in the United States. There appeared in Grevillea, beginning in 1883, a revised second edition of this work. Up to date, 176 pages, descriptions of *Agarici*, have been published in the different numbers of that journal, and also issued separately.

105. — Notes on *Podisoma*. *Jour. Quekett Micros. Club*, II. 255-268 (1-14). Pl. 18, 19. Read 24 Nov. 1871.

Has figures of *Gym. clavipes* and *Gym. macropus* from the United States; also notes on some of our species.

106. — Carpology of *Peziza*. *Grev.* III. 30-31, pl. 27-30, Sept. 1874; 73, 74, pl. 31-34, Dec. 1874; 127, 128, pl. 38-41, March, 1875; 186, pl. 43, 44, June, 1875; — IV. 41, pl. 50, 51, Sept. 1875; 132, pl. 65, March, 1876; 168, pl. 69, June, 1876.

Figures of asci, spores, and, in some cases, paraphyses of *Pezizae*, including American species.

107. — Revision of *Geoglossum*. *Grev.* III. 133, 134. March, 1875.

Revision of the species of Cooke's Handbook; refers to two American species.

108. — Synopsis of the *Discomycetous* fungi of the United States. Part 1. *Bull. Soc. Nat. Sci. Buffalo*, II. 285-300, March, 1875. — Part 2. l. c. III. 21-32; 33-37, Sept. and Nov. 1875.

Part 1 gives a list of 357 species, with localities and characters of the new or little-known forms. Part 2 has remarks on some of the species in part 1, with a list of 212 additional species and descriptions of new species.

109. — On *Corticium amorphum*, Fr. *Grev.* III. 136-138. March, 1875.

Synonymy of this species with reference to *Aleurodiscus amorphus*, Rahl., including *Nodularia balsamicola*, Peck. See next title.

110. — On *Corticium Oakesii*, B. and C. *Grev.* III. 172. June, 1875.

Continuation of paper on *C. amorphum*. See above.

111. — *Phragmidium*. *Grev.* III. 171. Pl. 45. June, 1875.

Figures *P. speciosum* from the United States.

112. — British Fungi. *Grevillea*.

The following references to North American fungi: *Grev.* III. 179, 180, June, 1875, note on *Puccinia Violarum*, *P. Asteris*, *P. Gerardi*, description and figure of *P. hastata*, pl. 49, fig. 10 b; p. 182, l. c. description of genus *Virgaspodium* and note on *V. clavatum*; p. 185, l. c. note on *Peziza Agassizii*; IV. 69, Dec. 1875, note on species of *Virgaspodium* and *Clasterisporium*.

113. — *Pezizae Americanae*. *Hedwigia*, XIV. 81-85. June, 1875.

Describes 21 new species from Maine, New York, New Jersey, and 1 from Mexico. Some previously described in *Torr. Bull.* VI. 31, 32.

114. — *Podisoma* on *Juniperus phoenicia*. *Grev.* III. 189. 190. June, 1875.

Includes a note on the germination of *Gymnosporangium clavipes*.

115. — New Scotch *Peziza*. *Grev.* IV. 91, 92. Dec. 1875.

A foot-note gives a description of *Peziza scubalonta*, Gerard, from New York.

116. — On *Peziza brunnea*. *Grev.* IV. 125, 126. March, 1876.

Note on *P. confusa*, Cooke, of the United States.

117. — *Triblidium*. *Grev.* IV. 182. Pl. 67. June, 1876.

Includes figures of 5 *Triblidia* and *Ostreichnion Americanum* from the United States.

118. — Observations on *Peziza calycina*. *Grev.* IV. 169-172. Pl. 66. June, 1876.

A criticism of Rehm's Note on *Peziza calycina*. See REHM.

119. — The *Hyphomycetous* Fungi of the United States. *Bull. Soc. Nat. Sci. Buffalo*, III. 189-192, Feb. 1877; 193-202, July, 1877.

Enumeration of 304 species, with synonymy in some cases.

120. — Caution to mushroom eaters. *Field and Forest*, II. 146. Feb. 1877.

Calls attention to the resemblance between *Agaricus campestris* and *A. fastidius*.

121. — On black moulds. *Jour. Quekett Micros. Club*, IV. 246-277. (1-28.) Pl. 24-27. Read 23 Feb. 1877.

Has colored figures of 8 species of *Hyphomycetes* of the United States.

122. — On *Valsa vitis*, Schw. *Grev.* V. 125. March, 1877.

Separates the European form of this name under the name of *V. vitigera*.

123. — The *Valsei* of the United States. *Proc. Acad. Nat. Sci. Philadelphia*. pp. 110-127. Apr. May, 1877.

Describes 93 species of *Valsa* and 5 of *Melanconia*, with enumeration of 40 doubtful species, principally from the Schweinitz herbarium. See STEVENSON, W. C.

124. — The *Myxomycetes* of the United States. *Ann. Lyceum Nat. Hist. New York*, XI. 378-409. June, 1877. Read 16 April, 1877.

An arrangement of species taken from Rostafinski, with synonymy and, in some cases, spore measurements; 154 species enumerated, 3 described as new.

Cooke, Mordecai Cubitt.

125. Spore formation in *Urocystis*. *Grev.* V. 158. June, 1877.

Summary of papers by Fischer von Waldheim and Farlow, q. v.

126. — North American Fungi. *Grev.* V. 150-154. June, 1877.

Notices of 54 species from Maine, New York, and South Carolina, 13 described as new. See nos. 129 and 152.

127. — Some allied species of *Aecidiacei*. *Bull. Soc. Bot. France*, XXIV. 314, 315. Transl. Quelques espèces voisines d'Aecidiacées, l. c. 316, 317. 22 Oct. 1877.

Includes notes on *Peridermium cerebrum*, Peck, and *Roeselia hyalina*, Cooke.

128. — Praecursor ad monographiam *Hendersoniae*. *Nuov. Giorn. Bot. Ital.* X. 17-27. Jan. 1878.

Mentions 32 species of the United States, and gives details of the spores in some species.

129. — North American Fungi. *Hedwigia*, XVII. 37-40. March, 1878.

Description of 21 new species in Ravenel's *Fungi Americani Exsiccati*. See no. 126, 135, and 152.

130. — On fungoid diseases of the Vine. *Jour. Roy. Hort. Soc. V.* new ser. 68-76, 90-94, 115-123, March, July, Dec. 1878.

In a notice of Farlow's American Grape Vine Mildew there are given critical notes on *Oidium Tuckeri*, *Uncinula spiralis*, *U. Americana*, *U. subfusca*, and *Sphaerotheca Morsuae*. Also descriptions of *Septoria viticola*, B. and C., *S. ampelina*, B. and C., *S. fatis*, B. and C. Last part has notes on *Cupnodium elongatum*, with review of Cornu's papers on Anthranose, *Cladosporium viticolum*, etc., with notes on *Phoma uvicola*, B. and C., *Graphium clavosporum* and *Cladosporia*. See no. 133.

131. — The fungi of Texas. *Jour. Linn. Soc.* XVII. 141-144. 1880. Read 4 April, 1878.

Descriptions of 25 new species collected by H. W. Ravenel. See next title.

132. — The fungi of Texas. *Ann. Acad. Sci.*, New York, I. 177-187. May, 1878.

A list of 149 species collected by H. W. Ravenel, including descriptions of 25, same as in last paper.

133. — Vine diseases. *Grev.* VI. 147-150. June, 1878.

A review of Pirotta's *Funghi parassiti dei Vitigni* and Thumen's *Pilze des Weinstockes*, q. v., with notices of American viticolous fungi. See no. 130.

134. — Enumeration of *Polyporus*. *Trans. Bot. Soc. Edinburgh*, XIII. 131-159. 1878. Read 2 July, 1878.

Alphabetical list of known species of *Polyporus*, with their distribution. See no. 163.

135. — Ravenel's American fungi. *Grev.* VI. 129-146, June, 1878; VII. 32-35, Sept. 1878; 43-54, Dec. 1878.

Enumeration of species in Ravenel's *Fungi Americani Exsiccati*, see supplement, with descriptions of 143 new species and figures of some of the species on pl. 101. This plate is in vol. VI, the description of plate in VII. 96. Two new genera, *Phillipsiella* and *Saccardia*, figured on pl. 119. Some of the species named are described in *Hedwigia*, XVII. 37-40, March, 1878.

136. — On *Chaetophoma*. *Grev.* VII. 24-26. Pl. 118, 119. Sept. 1878.

Describes and figures 6 species from Carolina. Descriptions repeated without figures in *Hedwigia*, XVII. 134.

137. — Some Extra-European Fungi. *Grev.* VII. 13-15. Sept. 1878.

Includes an enumeration of 34 species collected by W. R. Gerard in New York, 5 described as new.

138. — Californian Fungi. *Grev.* VII. 1-4, Sept. 1878; 101, 102, March, 1879.

Enumeration of 57 species collected by H. W. Harkness. Describes 16 new, and one species from New York. See also COOKE and HARKNESS.

139. — *Mycographia seu Icones Fungorum*. Figures of fungi from all parts of the world, drawn and illustrated by M. C. Cooke. 4^o Vol. I. Pl. 113. Fig. 406. *Discomycetes*. London. 1879.

Of this work only one volume has been issued. It includes 6 parts, which appeared as follows: Oct. 1875, April, 1876, Oct. 1876, April, 1877, Jan. 1878, Feb. 1879. There is a systematic and an alphabetic index. It includes a large number of colored plates of American *Discomycetes*, with descriptive text. Descriptions of the new and little-known species given also in *Hedwigia*, XVI. 142-144; 147-154; XVII. 53-55.

140. — Some exotic fungi. *Grev.* VII. XIV.

The following are North American references: VII. 95, March, 1879, description of *Diplodia gossypina*; — XII. 37, 38, Sept. 1883, 4 species from New Hampshire, Ohio, South Carolina, and Texas; — XII. 85, March, 1884, *Polyporus pocula*; — XIII. 6, Sept. 1884, *Puccinia Ipomeae*; — XIV. 13, 14, Sept. 1885, 4 species from Oregon, Georgia, and South Carolina; 90, March, 1886, *Leptothyrium Liriodendri* and *Phoma cerasina* from South Carolina.

141. — On *Peniophora*. *Grev.* VIII. 17-21. Pl. 122-125. Sept. 1879.

New genus formed from species of *Corticium* and *Stereum*. Includes American forms. See no. 149.

142. — Undescribed fungi in the Kew Herbarium. *Grev.* VIII. 34, 35. Sept. 1879.

Describes 2 species from Oregon and British Columbia.

143. — Natal Fungi. *Grev.* VIII. 69-72. Dec. 1879.

Describes *Uredo macrosperma*, Cooke, from the United States.

144. — Agaric with green spores. *Grev.* VIII. 53. Dec. 1879.

Brief notice of *Agaricus Morgani*, Peck.

145. — Reliquiae Libertianae. *Grev.* VIII. 81-87. March, 1880.

On p. 87 describes *Lasiosphaeria acicola* from the Rocky Mountains.

146. — New York Fungi. *Grev.* VIII. 117-119. March, 1880.

Notices of 31 species collected by W. R. Gerard, 7 described as new. See also notice in *Rev. Myc.* II. 98.

147. — The genus *Ravenelia*. *Jour. Roy. Micr. Soc.* III. 384-389 (1-6). Pl. 11. Read 14 April, 1880.

General account of the genus, including *R. glandulaeformis* and *R. sessilis* of the United States.

148. — Observations on *Peziza*. *Grev.* VIII. 129-143. Pl. 131-133. June, 1880.

Incidental reference to American species.

149. — On *Hymenochaete* and its allies. *Grev.* VIII. 145-150. June, 1880.

Enumeration of species, including American, with descriptions of setae. Also gives additional species of *Peniophora*. See no. 141.

150. — The *Perisporiaceae* of Saccardo's *Sylloge Fungorum*. *Grev.* XI. 35-38. Sept. 1882.

Gives his views with regard to *Erysiphella* and *Pleochaete*, with notes of 12 American species, principally *Asterinae* and *Meliolae*.

151. — Re-appearance of *Cyclocladus*. *Grev.* XI. 95, 96. Pl. 160. Fig. 10. March, 1883.

Describes *Cyclocladus Ohienensis*, Cooke and Morgan, with figures, and states that *Milleria herbatia*, Peck, is *Testicularia Cyperi*, Klotzsch. See Klotzsch, J. F.

152. — North American Fungi. *Grev.* XI. 106-111. March, 1883.

Enumerates 44 species from Maine, Ohio, California, the greater part from South Carolina and Georgia, in Ravenel's *Fungi Americani Exsiccati*; 27 described as new. See same title above, no. 129.

Cooke, Mordecai Cubitt.

153. On *Xylaria* and its allies. *Grev.* XI. 81-94. March, 1883.

A revision of species of *Xylaria* in Saccardo's Sylloge. Gives details of spores of some North American species, with figures on pl. 162-165 of vol. XI. and 166-171 of vol. XII. See no. 155.

154. — On *Sphaerella* and its allies. *Britten's Jour. Bot.* XXI. 67-71, March, 1883; 106-110, April, 1883; 136-139, May, 1883.

Includes notes or descriptions of about 50 species of the United States, some from Herb. Schweinitz and Ravenel's Fungi Americani Exsiccati.

155. — *Hypoxyylon* and its allies. *Grev.* XI. 121-140. June, 1883.

Revision of species in Saccardo's Sylloge. Continuation of no. 153. Details of spores of a number of North American species, with description of 6 species. See next title.

156. — *Nummularia* and its allies. *Grev.* XII. 1-8. Sept. 1883.

Continuation of papers on *Xylaria* and *Hypoxyylon*. See above. Notes on several North American species, with descriptions of three Schweinitzian species.

157. — New American fungi. *Grev.* XII. 22-33. Sept. 1883.

Pyrenomyces imperfectae and *Hyphomycetes* in Fungi Americani Exsiccati, 94 new species, a new genus, *Sphaerellopsis*, notes on other species, and descriptions of 2 Californian species, *Torula fusoides* and *Cumpstonium cuspidatum*.

158. — The genus *Anthostoma*. *Grev.* XII. 49-53. Dec. 1883.

Revision of this genus in Saccardo's Sylloge, including notes on 16 American species.

159. — The structure and affinity of *Sphaeria pocula*, Schweinitz. *Jour. Linn. Soc.* XX. 508-511. Pl. 47. 1884. Read 17 Jan. 1884.

Species referred to *Polyporus*.

160. — Notes on *Hypocreaceae*. *Grev.* XII. 77-83, 100, 101. March and June, 1884.

Review of species in Saccardo's Sylloge, II., including details of 26 American species, with descriptions of several new species.

161. — Synopsis *Pyrenomycetum*. *Grev.* XII. 102-113, June, 1884; — XIII. 8-16, Sept. 1884; 41-45, Dec. 1884; 61-72, March, 1885; 100-109, June, 1885; — XIV. 14-17, Sept. 1885; 46-56, Dec. 1885; 93-97, March, 1886.

General revision of the order as given in Saccardo's Sylloge, with numerous notes on American species.

162. — *Sphaeriaceae imperfectae cognitae*. *Grev.* XIII. 37-40. Dec. 1884.

Review of this group in Saccardo's Sylloge, II., with additional details of 47 species from the Schweinitz Herbarium, in part by W. C. Stevenson, and descriptions of 2 species omitted by Saccardo.

163. — Praecursores ad monographiam *Polypororum*. *Grev.* XIII. 80-87, March, 1885; 114-119, June, 1885; — XIV. 17-21, Sept. 1885; 77-87, March, 1886; 109-115, June, 1886; — XV. 19-27, Sept. 1886; 50-60, Dec. 1886.

Enumeration of all known species of *Polyporus*, with occasional notes on synonymy. XV. 19-27, contains descriptions of 13 American species. See no. 134.

164. — A new *Stereum* from North Carolina. *Jour. Myc.* I. 130. Oct. 1885.

Descriptions of *S. carolinense*.

165. — *Valsa vitis*, again. *Grev.* XIV. 44-46. Dec. 1885.

Full synonymy given for *Diatrype* (*Valsaria*) *viticola*, Schw., *Valsa* (*Eutypella*) *vitis*, Schw., and *V. vitigera*, Cooke.

— and Berkeley, M. J.

166. Fungi: their nature and uses. Edited by Rev. M. J. Berkeley. 8°. pp. 299. Fig. 109.

New York. 1875. The International Scientific Series.

Has incidental references to American species. A general treatise on the structure and properties of fungi, including substance of notes on edible fungi of the United States by M. A. Curtis. See CURTIS, M. A., and PORCHER, F. F.

— and Ellis, J. B.

167. New Jersey Fungi. *Grev.* IV. 178-180, pl. 68, June, 1876; — V. 30-35, pl. 75, Sept. 1876; 49-55, pl. 80, 81, Dec. 1876; 89-95, March, 1877; — VI. 1-18, pl. 95, 96, Sept. 1877; 81-96, pl. 99, 100, March, 1878; — VII. 4-10, Sept. 1878; 37-42, Dec. 1878; — VIII. 11-16, Sept. 1879; — IX. 103, March, 1881.

Enumeration of a large number of species, with notes and descriptions of not far from 300 new species. There appears to be no reference to fig. 2 and 8 of pl. 81.

— and Harkness, H. W.

168. Californian Fungi. *Grev.* IX. 6-9, Sept. 1880; 81-87, March, 1881; — XII. 83, 84, March, 1884; 92-97, June, 1884; — XIII. 16-21, Sept. 1884; 111-114, June, 1885; — XIV. 8-10, Sept. 1885.

Enumerates a large number of species, of which the greater part, about 200, are described as new. Collected by Harkness, and species mentioned again in *Bull. Cal. Acad. Sci.* See no. 170. See *Rev. Myc.*, April, 1881, p. 44. For remarks on genus *Harknessia*, see WINTER, G.

169. — Fungi on *Eucalyptus*. *Grev.* IX. 127-130. June, 1881.

Notices of 42 species, of which 18 are described as new. Names of new species given in *Rev. Myc.*, July, 1881, p. 67.

170. — Fungi of the Pacific Coast. *Bull. Cal. Acad. Sci.* I. 13-10. Feb. 1884.

List of 91 species previously described in *Grevillea*, IX. 6-9, 81-87, giving hosts and localities. Also 2 species described by Ellis and Harkness in *Torr. Bull.* VIII. 51.

— and Peck, C. H.

171. *Pezizae Americanae*. *Grev.* I. 5-7. Pl. 1. July, 1872.

Notices and descriptions of 12 species, 6 of which are new; six colored figures.

172. — The *Erysiphei* of the United States. *Trimen's Jour. Bot.* X. (n. s. I.) 11-14. Jan. 1872.

Enumeration of 26 species and 13 inquirendae, with descriptions of some of the species. Descriptions also given in *Hedwigia*, XI. 74, 75.

173. — Supplementary notes on the *Erysiphei* of the United States. *Trimen's Jour. Bot.* X. (n. s. I.) 170-172. June, 1872.

Notes on 14 species, including *Uncinula Americana*, Howe, and one other new species; 6 species and 1 variety not included in last-named paper.

- Corda, August Karl Joseph.** Reichenberg, 22 Oct. 1809. †Lost at sea Sept. 1849.

174. Anleitung zum studium der mycologie nebst kritischer beschreibung aller bekannten gattungen, und einer kurzen geschichte der systematik. 8°. CXXII. 223. Pl. 1-8. Prague. 1842.

Some of the illustrations given in this work are taken from Bosc's Mémoire, q. v. Descriptions of American genera are given. There is also an index of authors and works on mycology, including some relating to North America.

**Icones Fungorum hucusque cognitorum*. f°. 6 vol. Prague. 1837-1854. Has figures of many species found also in this country, but not specially credited to the United States. A considerable part of the edition or the first five volumes was destroyed in the great fire at Prague, and complete sets of the original edition are now very rare. The remaining copies of vol. VI. were purchased by R. Friedländer & Sohn, of Berlin, who have reproduced the first five volumes by photo-lithography, and most copies now offered for sale have only the sixth volume of the original edition.

Cornu, Maxime. Orléans, France, 16 July, 1843.
175. Note sur le *Ptychogaster albus*, Corda.
Bull. Soc. Bot. France, XXIII. 359-363. 10 Nov. 1876.

Has notes on the structure of *Pilacre Petersii*, B. and C.

176. — Présence du *Podisoma Juniperi-Sabinae* sur le *Juniperus Virginiana*, et sur divers autres gévériers. *Bull. Soc. Bot. France*, XXV. 122-125. 12 April, 1878.

Account of species of *Podisoma* which occur on *J. Virginiana* in France, with notes on a comparison of some American with European specimens.

177. — Énumération des *Péronosporées* de France. *Bull. Soc. Bot. France*, XXV. 293-300. 13 Dec. 1878.

Notes the occurrence of *Peronospora basidiophora* in the United States.

178. — Le charbon de l'oignon ordinaire (*Allium Cepa*), maladie nouvelle, originaire d'Amérique, causée par une *Ustilaginée* (*Urocystis Cepulae*, Farlow). *Comptes Rendus*, LXXXIX. 51-53 (1-3). 7 July, 1879.

Includes notes on this species in the United States.

179. — Maladies nouvelles pour l'Europe à propos d'une *Ustilaginée* (*Urocystis Cepulae*) parasite sur Poignon ordinaire. *Bull. Soc. Bot. France*, XXVI. (I. n. s.) 263-267. 11 July, 1879.

Additional remarks on subject of last title. Continued in next title.

180. — Observations sur la maladie des oignons (*Urocystis Cepulae*). *Bull. Soc. Bot. France*, XXVII. (II. n. s.) 39-42. 13 Feb. 1880.

181. — Notes sur quelques maladies des plantes. *Bull. Soc. Bot. France*, XXVIII. (III. n. s.) 143-146. May, 1881.

Notes the occurrence of the American *Caeoma luminatum* in France.

182. — Observations sur le *Phylloxera* et sur les parasites de la vigne. Étude sur les *Péronosporées*. 4^e pp. 91. Pl. 1-5. Paris. 1882.

Contains a full bibliography of the subject, with numerous extracts from works on American fungi.

183. — Sur quelques *Ustilaginées* nouvelles ou peu connues. *Ann. Sci. Nat.* 6 ser. XV. 269-296. Pl. 14-16. June, 1883.

Has accounts of the structure of American species of *Tetlicularia*, *Constricta*, and *Doassansia*, with figures. See also *Bull. Soc. Bot. France*, XXX. 130-133. March, 1883.

Coulter, John Merle. Ningpo, China, 20 Nov. 1851. See BOTANICAL BULLETIN. See HAYDEN, F. V. See PORTER, T. C.

184. — *Uromyces Lespedezae*. *Bot. Gaz.* (*Bot. Bull.*) I. 20. March, 1876.

Synonymy of species given in note from C. H. Peck.

185. — A large puff-ball. *Bot. Gaz.* VI. 290. Nov. 1881.

Note on a *Lycoperdon giganteum*, 58 × 32 inches in circumference.

Coulter, (M.) Stanley. Ningpo, China, 2 June, 1853. See BOTANICAL GAZETTE.

Cragin, Francis Whittemore. Greenfield, N. H., 4 Sept. 1858.

186. First contribution to the catalogue of the *Hymenomyces* and *Gasteromyces* of Kansas. *Bull. Washburn Coll. Laboratory Nat. Hist.* Topeka, Kan. I. 19-28, Sept. 1884; 33-42, pl. 1, Feb. 1885.

Part I. gives an enumeration of 139 *Hymenomyces*, 3 new species by Cragin, the others determined mostly by J. B. Ellis, A. P. Morgan, and C. H. Peck. Part II., *Gasteromyces*, including *Myrogastris*, 49 species named, 8 new, with plate of *Phalloidei*. New species given in *Jour. Myc.* I. 28. Rev. in *Am. Nat.* XIX. 399.

187. — Second contribution to the catalogue of the *Hymenomyces* and *Gasteromyces* of Kansas. *Bull. Washburn Coll. Laboratory Nat. Hist.* I. 65-67. Jan. 1885.

Continuation of the above. Twenty species enumerated, one new, all *Hymenomyces*. See *Jour. Myc.* I. 58.

188. — A contribution to the knowledge of the lower fungi of Kansas. *Bull. Washburn Coll. Laboratory Nat. Hist.* I. 67-72. Feb. 1885.

Enumeration of 69 species, principally *Ascomycetes*, 2 new species. See *Jour. Myc.* I. 47.

189. — A new genus and species of Tremelline Fungus. *Bull. Washburn Coll. Laboratory Nat. Hist.* I. 82. Feb. 1885.

Describes a new genus, *Ceracea*. See *Jour. Myc.* I. 58.

Currey, Frederick. Eltham, Kent, England, 19 Aug. 1819. †Blackheath, 8 Sept. 1881.

190. Synopsis of the fructification of the *Compound Sphaeriae* of the Hookerian Herbarium. *Trans. Linn. Soc. XXII.* 257-287. Pl. 45-49. 1859. Read 4 March, 1858.

See following titles.

191. — Synopsis of the fructification of the *Simple Sphaeriae* of the Hookerian Herbarium. *Trans. Linn. Soc. XXII.* 313-335. Pl. 57-59. 1859. Read 5 May, 1859.

See next title.

192. — Supplementary observations on the *Sphaeriae* of the Hookerian Herbarium. *Trans. Linn. Soc. XXV.* 239-262. 1866. Read 15 June, 1865.

In the three papers just mentioned there is an account of the spores of a considerable number of species from the Schweinitz herbarium, with figures of some of them.

— and **Hanbury**, D.

193. Remarks on *Sclerotium stipitatum*, *Pachyma Cocos*, and some similar productions. *Trans. Linn. Soc. XXIII.* 93-97. Pl. 9, 10. 1860. Read 3 May, 1860.

An account of Tuckahoe, with notice of previous works on the subject.

Curtis, Edward. See BILLINGS, J. S.

Curtis, Moses Ashley. Stockbridge, Mass., May 11, 1808. †Hillsborough, N. C., April 10, 1872. See BERKELEY, M. J. See DUBY, J. E. See PORCHER, F. P. See RAVENEL, H. W., *Exsiccata* in Supplement. See SPRAGUE, C. J. See TUCKERMAN, E.

194. — Contributions to the mycology of North America. *Am. Jour. Sci. Arts*, 2 ser. VI. 349-353, and 444. Nov. 1848.

A brief account of works relating to North American fungi up to date, followed by an enumeration of 30 species, 10 described as new. The species are, with one exception, from North and South Carolina, and most of them are repeated in Berkeley's "Notices of North American Fungi." See no. 42, above. For continuation of this paper, see BERKELEY and CURTIS, no. 47, above.

195. — Geological and natural history survey of North Carolina. Part 3, Botany; containing a catalogue of the indigenous and naturalized plants of the state. 8^o. pp. 156. Raleigh. 1867.

Gives a list, pp. 83-154, of 2392 fungi, edible species in italics. This list is the most extensive up to date, with the exception of Schweinitz's Synopsis. Many of the names appear here for the first time in print, and the descriptions, credited to Berkeley and Curtis, were given by Berkeley in the Notices of North American Fungi, q. v. Four species omitted from the list are given on a supplementary unnumbered page. A few species named have never been described. The list of edible fungi is given by F. P. Porcher in "Fungi, edible and poisonous," q. v. See also Rept. U. S. Dept. Agr. for 1876, p. 79.

Curtis, Moses Ashley.

196. On the esculent fungi of America. *Jour. Roy. Hort. Soc. II.* new ser. 71-79. 1870. Also *Gard. Chron.* 9 Oct. 1869. p. 1066.

Gives in a letter to Berkeley the results of experiments on a number of species, especially from Carolina, with remarks on taste and value as food. Substance of this article to be found in "Fungi, their nature and uses," p. 88 et seq. See COOKE and BERKELEY.

N. B. In *Am. Jour. Sci. Arts*, XLII. 2 ser. p. 120, it is stated that Curtis is about to publish a work on edible fungi, but the contemplated work was never issued.

— and **Berkeley, M. J.**

197. United States Exploring Expedition during the years 1838-1842, under the command of Charles Wilkes, U.S.N. Vol. XVII. Botany. 4^o. Philadelphia. 1862. 1874. Fungi. pp. 195-203. Pl. 1.

Thirty-one species named, of which 3 are from Oregon; *Cantharellus aurantiacus*, *Polyporus vellereus* var. and *Batrachia phalloides*. For other fungi of Wilkes' Expedition, see BERKELEY and CURTIS, no. 48, above. Extras distributed in 1862. Volume issued 1874.

Day, David Fisher. Buffalo, 11 June, 1829.

198. A catalogue of the native and naturalized plants of the city of Buffalo and its vicinity. *Bull. Soc. Nat. Sci. Buffalo*, IV. 65-152, 1882; 153-290, 1883. Reprint. 8^o. pp. 215, with chart. Buffalo. 1883.

The fungi, pp. 174-235 (110-171), were determined by C. H. Peck from specimens collected by G. W. Clinton; 869 species are enumerated, with their habitats and, in some cases, synonymy and critical notes. Some of the species previously mentioned in *Reports N. Y. State Museum Nat. Hist.* See PECK, C. H.

Demetrio, Carl Hermann. Eisenberg, Saxony, 24 Dec. 1845. See WINTER, G.

199. **Department of Agriculture** of the United States. See AGRICULTURAL REPORTS.

Desmazières, Jean Baptiste Henri Joseph. 1796. †Lambersart, near Lille, 23 June, 1862. See BERKELEY, M. J.

Desvaux, Nicaise Augustin. Poitiers, 28 Aug. 1784. †Bellevue, near Angers, 12 July, 1856. See PERSOON, C. H.

200. Observations sur quelques genres à établir dans la famille des champignons. *Desvaux's Journal de Botanique*, II. 88-105. Paris. 1809.

On p. 94 the genus *Calostoma* is described, founded on *Scleroderma calostoma*, P., *Mitremyces cinnabarinus*, Schw.

Duby, Jean Etienne. Geneva, 1798. †Geneva, 24 Nov. 1885.

201. Mémoire sur la tribu des *Hystérinées* de la famille des *Hypoxyloées* (*Pyrenomycètes*). 4^o. pp. 58. Pl. 1, 2. Geneva. 1861. Ext. *Mém. Soc. Phys. et Hist. Nat.* XVI. 15-70. Pl. 1, 2. Geneva. 1862.

Includes descriptions of 19 American species, 8 new, principally from collections of M. A. Curtis, H. W. Ravenel, and Schweinitz, with figures of some of them. For revision of species in this work, see REHM, H., and BILLINGS, J. S., title no. 68^o.

Dudley, Plimmon Henry. Freedom, Portage Co., O., 21 May, 1843.

202. Fungi inducing decay in timber. *Trans. Acad. Sci. New York*, V. 110-118. Jan. 1886.

Gives a list of 17 species, *Hymenomyces*, known by the writer to cause rotting of timber in the Eastern States, *Lentinus lepideus* being the most destructive. Also notes on the action of other species named.

203. — Fungi which cause decay in timber. *Jour. N. Y. Micros. Soc.* II. 36, 37. Feb. 1886.

Account of the growth of *Lentinus lepideus*.

204. — Woods and their destructive fungi. *Pop. Sci. Monthly*, XXIX. 433-444, 604-617. Fig. 23. Aug.—Sept. 1886.

Account of observations on the action of fungi on timber and the remedies, with descriptions and figures of a number of species, principally *Polyporei*.

Earle, Franklin Sumner. Dwight, Grundy Co., Ill., 4 Sept. 1856.

205. Notes on the North American forms of *Podosphaera*. *Bot. Gaz.* IX. 24-26. Feb. 1884. Account of different forms referred to *P. Oryzanthae* (DC.).

205^a. — Fungoid diseases of the strawberry. *Rept. Kansas State Hort. Soc.* XIV. 133-137. Topeka. 1885. Also *Rept. Am. Hort. Soc. for 1884*. See next title.

206. — Fungoid diseases of the strawberry. *Fruit-Growers' Jour.* Cobden, Ill. 29 Jan. 1885. Also *Trans. Miss. Valley Hort. Soc.* III. 47-54.

Account of *Ramularia Tulamei*, *Gloeosporium Potentillae*, and a new *Bacillus*.

Eaton, Amos. Chatham, Columbia Co., N. Y., 17 May, 1776. †Troy, N. Y., 10 May, 1842.

207. A Manual of Botany for the Northern States, comprising generic descriptions of all phaenogamous and cryptogamous plants to the north of Virginia, hitherto described; with references to the natural orders of Linnaeus and Jussieu. 12^o. pp. 164. Albany. 1817.

This volume, which has on the title-page "By the members of the botanical class in Williams College, from a manuscript system compiled by the author of Richard's Botanical Dictionary," is the first edition of the following work.

208. — A Manual of Botany for the Northern and Middle States. Part 1, containing generic descriptions of the plants to the north of Virginia, with references to the natural orders of Linnaeus and Jussieu. Part 2, containing descriptions of the indigenous plants, which are well defined and established; and of the cultivated exotics. 12^o. Albany. 1817. pp. 524. 2d ed. 1818; 3d ed. 1822; 4th ed. 1824; 5th ed. 1829; 6th ed. 1833; 7th ed. 1836; 8th ed. 1840.

The 1st edition has 3 pages, with 22 genera of fungi, each illustrated by a single species, compiled by the author mostly from Turton and Linnaeus. The 2d edition has the same genera, pp. 117-119 of part 1, but they are repeated alphabetically in the second part, and several species described under them, including some not given by Muhlenberg. The generic characters of fungi of this edition are said to be taken from Linnaeus. In the 3d edition, 54 genera of fungi are given from Persoon's Synopsis, and the list of species corresponds with Muhlenberg's Catalogue. Editions 4 and 5 have the same fungi. The 6th edition has the genera of fungi, pp. 6-13, part 2, rearranged from Loudon on Fries's system, the species the same as before, with some additions. In editions 7 and 8, fungi the same as before.

209. — Observations on the *Boletus igniarius*, showing its analogy to animal substances in closing its several parts. *Am. Jour. Sci. Arts*, VI. 177. Jan. 1823.

Account of the union of cut surfaces in this species.

Edwards, A. M.

210. Note on fungi. *Torr. Bull.* II. 39, 40. Oct. 1871.

Mention of 5 *Uredineae* from New York, determined by M. C. Cooke.

Ehrenberg, Christian Gottfried. Delitzsch, 19 April, 1795. †Berlin, 27 June, 1876.

211. Fungos a viro clarissimo Adalberto de Chamisso sub auspiciis Romanzoffianis in itinere circa terrarum globum collectos enumeravit novisque descripsit et pinxit Dr. C. G. Ehrenberg. *Horae Physic. Berolin.* pp. 79-104. Pl. 17-20. f^o. Bonn. 1820.

Includes descriptions of 7 species from Unalaschka, 2 from St. Lawrence Island, 4 new, with figures.

Ellis, Job Bicknell. Potsdam, N. Y., 21 Jan. 1829. See BRITTON, N. L. See CRAGIN, F. W. See COOKE, M. C. See JOURNAL MYCOLOGY. See MACOUN, J. See PECK, C. H. See SACCARDO, P. A.

Ellis, Job Bicknell.

212. New species of fungi found at Newfield, N. J. *Torr. Bull.* V. 45, 46, Nov. 1874; VI. 75-77, Feb. 1876.

Descriptions of 16 species.

213. — South Jersey fungi. *Torr. Bull.* VI. 106-109, 133-135. Sept. 1876—Feb. 1877.

Continuation of paper by C. H. Peck, *Torr. Bull.* VI. 13, 14. Characters of 29 new species, new name proposed for *Boletus squamulosus*, and note on synonymy of *Sphaeronema nigripes*.

214. — Rediscovery of a lost *Sphaeria*. *Torr. Bull.* VI. 231, 232. May, 1878.

Reports the discovery of *S. barbirostris*, Duf., in New Jersey.

215. — On the variability of *Sphaeria Quercuum*, Schw. *Proc. Acad. Nat. Sci. Philadelphia.* 1879. pp. 66-70.

Twenty different species are considered to be the same as *S. Quercuum*, and the name *Melogramma fuliginosum* is proposed to designate them all. See review by M. C. Cooke in *Grev.* VIII. 35, 36, and reply by J. B. Ellis in *Proc. Acad. Nat. Sci. Philadelphia*, 1879, pp. 381, 382, and *Grev.* VIII. 143-144, with supplementary note by Cooke.

216. — A new *Sphaeria* on grapes. *Torr. Bull.* VII. 90, 91. Aug. 1880.

Describes *S. Bidwellii*, which is thought to be connected with *Phoma viticola*.

217. — Development of *Sphaeria Solidaginis*, Schw. *Torr. Bull.* VIII. 29. March, 1881.

States that *Coleosporium Solidaginis* is a form of *Dothidea Solidaginis*.

218. — New species of North American fungi. *Torr. Bull.* VIII. 64-66, 73-75, 89-91, June, July, August, 1881; — IX. 18-20, 73, 74, 98, 99, 111, 112, 133, 134, Feb., June, Aug., Sept., Nov. 1882; — X. 52-54, May, 1883.

Characters of 92 species, principally from New Jersey, some distributed in North American Fungi Exs. Also 10 species from Utah, and a few from Maine, New York, etc. In two of the parts the title reads "New North American Fungi."

219. — New *Ascomycetous* fungi. *Torr. Bull.* VIII. 123-125. Nov. 1881.

Characters of 13 species collected in Pleasant Valley, Utah, by S. J. Harkness.

220. — *Diatrype disciformis* var. *Magnoliae*. *Am. Nat.* XVI. 238, 239. March, 1882.

The variety separated as a species under the name *D. tremellophora*.

221. — New fungi. *Am. Nat.* XVI. 810, 811. Oct. 1882.

Describes 7 species of *Septoria* and *Cercospora* from Lexington, Ky.

222. — New species of North American fungi. *Am. Nat.* XVII. 192-196, 316-319, Feb., March, 1883.

Descriptions of 35 *Ascomycetes*, principally from New Jersey and Iowa.

223. — Large fungi. *Am. Nat.* XVII. 1064. Oct. 1883.

Note on large *Hydnum septentrionale*, *Trametes suaveolens*, etc.

224. — Notes on *Gymnosporangium* and *Roestelia*. *Am. Nat.* XVII. 1281. Dec. 1883.

225. — Notes on fungi. *Am. Nat.* XVIII. 530, 531, 721, 722. May, June, 1884.

Notes on peculiarities of a number of *Polypori*.

226. — Note on *Sphaerella polystigma*, Ell. and Everh. *Torr. Bull.* XI. 120. Oct. 1884.

Notes a septum in the spores.

227. — *Microsphaera fulvo-fulcra*, Cooke. *Jour. Myc.* I. 83. June, 1885.

The no. 323, North American Fungi Exs., and 3045, Fungi Eur., are *Podosphaera*, probably *P. minor*, Howe.

228. — Notes on *Polyporus*. *Jour. Myc.* II. 5, 6. Jan. 1886.

Observations on *P. frondosus*, *P. flavo-virens*, *P. dependens*, and *P. Ellisii*.

229. — Notes on some published species of fungi. *Jour. Myc.* II. 43, 44. April, 1886.

Notes on 5 species. See next title.

230. — *Uncinula polychaeta*, B. and C. *Jour. Myc.* II. 52, 53. May, 1886.

A comparison of this species with *U. Lynchii*, Speg. See also *Jour. Myc.* II. 43.

231. — Phosphorescent fungi. *Jour. Myc.* II. 70, 71. June, 1886.

Panus stypticus said to be phosphorescent.

— and Everhart, B. M.

232. New species of fungi. *Torr. Bull.* X. 76, 77, 89, 90, 97, 98, 117, 118. July—Oct. 1883.

Describes 29 species, mostly *Ascomycetes*, the greater part from Pennsylvania and New Jersey.

233. — New (species of) North American fungi. *Torr. Bull.* XI. 17, 18, 41, 42, 73-75. Feb., April, July, 1884.

Describes 24 species from New Jersey, Iowa, Illinois, Canada, and California.

234. — New species of fungi from Washington Territory, collected by W. N. Saksdorf during the summer and fall of 1883. *Bull. Washburn Coll. Laboratory Nat. Hist.* I. 3-6. Sept. 1884.

Descriptions of 16 species of different orders.

235. — Enumeration of the North American *Cercosporae*, with descriptions of the species. *Jour. Myc.* I. 17-24, 33-40, 49-56, 61-67. Feb.—May, 1885.

Descriptions of 116 species, with list of host-plants. See no. 246.

236. — New fungi. *Jour. Myc.* I. 42-44, 140, 141, 148-154. March, Nov., Dec. 1885.

Descriptions of 42 species; a new genus, *Kellermania*. See also *Hedwigia*, XXV. 108-110.

237. — On *Ramularia obovata*, Fuckel. *Jour. Myc.* I. 69, 70. May, 1885.

Critical note on some forms referred to this species, some of which are placed in a new species *R. decipiens*.

238. — North American species of *Ramularia*, with descriptions of the species. *Jour. Myc.* I. 73-83. June, 1885.

Descriptions of 41 species, with list of host-plants. See no. 241.

239. — Canadian Fungi. *Jour. Myc.* I. 85-87. July, 1885.

List of 34 species collected by Prof. John Macoun, 5 described as new.

240. — New species of fungi. *Jour. Myc.* I. 88-93. July, 1885.

Descriptions of 23 new species from Dakota, Oregon, Utah, New Jersey, and other States.

241. — Supplementary notes on *Ramularia*. *Jour. Myc.* I. 102. Aug. 1885.

Note on *R. macrospora* v. *Senecionis* and *R. crypta*.

242. — The North American species of *Gloeosporium*. *Jour. Myc.* I. 109-119. Sept. 1885.

Forty-seven species, with list of hosts.

243. — A new genus of *Pyrenomyces*. *Jour. Myc.* I. 128, 129. Oct. 1885.

Description of *Hypothecha*, with 3 species.

244. — North American species of *Cylindrosporium*. *Jour. Myc.* I. 126, 128. Oct. 1885.

Descriptions of 8 species, with list of host-plants.

- Ellis, J. B., and Everhart, B. M.**
 245. Fungi of the Greeley Expedition. *Bot. Gaz.* X. 366. Oct. 1885. Also *Jour. Myc.* I. 141. Nov. 1885.
 Description of *Puccinia Cheiranthi* on *C. pygmaeus* from Grinnell Land.
246. ——— Supplementary enumeration of the *Cercosporae*. *Jour. Myc.* II. 1, 2. Jan. 1886.
 Gives 8 additional species, 5 of them new.
247. ——— Synopsis of the North American *Hypocreaceae*, with descriptions of the species. *Jour. Myc.* II. 28-31, 49-51, 61-69, 73-80, 97-99, 109-111, 121-125, 133-137; — III. 1-6. March, 1886—Jan. 1887.
 Full descriptions of 161 species, with host index.
248. ——— New species of fungi from various localities. *Jour. Myc.* II. 37-42, 87-89, 99-104. April—Sept. 1886.
 Fifty-four species, mostly from Louisiana. One new genus, *Cosciniaria*.
249. ——— *Kellermania*, Ell. and Everh. *Jour. Myc.* II. 111. Oct. 1886.
 The genus emended and two new species described.
 — and **Harkness, H. W.**
250. Some new species of North American fungi. *Torr. Bull.* VIII. 26-28, 51-52. March—May, 1881.
 Descriptions of 11 species, 2 from California, the rest from New Jersey and Pennsylvania.
251. ——— New Californian fungi. *Bull. Cal. Acad. Sci.* I. 26-29 (6-9). Feb. 1884.
 Descriptions of 8 species, all but 1 *Uredineae*.
 — and **Holway, E. W.**
252. New fungi from Iowa. *Jour. Myc.* I. 4-6. Jan. 1885.
 Descriptions of 15 species.
 — and **Kellerman, W. A.**
253. New species of North American fungi. *Am. Nat.* XVII. 1164-1166. Nov. 1883.
 Fourteen species, principally from Fairfield Co., Ohio.
254. ——— Kansas Fungi. *Torr. Bull.* XI. 114-116, 121-123. Oct., Nov. 1884.
 Descriptions of 26 species, the greater part *Cercosporae*.
255. ——— New Kansas Fungi. *Jour. Myc.* I. 2-4, Jan. 1885; — II. 3, 4, Jan. 1886.
 Descriptions of 20 new species. See species in *Hedwigia*, XXIV. 126, 127, 172-174.
256. ——— Two new species of *Cylindrosporium*. *Jour. Myc.* II. 81. July, 1886.
 Descriptions of *C. Tradescantiae* and *C. angustifolium*.
 — and **Martin, G.**
257. Some new species of *Sphaeriaceous* fungi. *Am. Nat.* XVI. 809, 810. Oct. 1882.
 Describes 5 species, 4 of them on *Sabal serrulata* in Florida.
258. ——— New species of North American fungi. *Am. Nat.* XVI. 1001-1004, Dec. 1882; — XVIII. 1147-1148, 1264, Nov., Dec. 1884; — XIX. 76, 77, Jan. 1885.
 Descriptions of 41 species, the greater part from Florida.
259. ——— New Florida Fungi. *Am. Nat.* XVII. 1283-1285, Dec. 1883; — XVIII. 69, 70, 188-190, Jan., Feb. 1884.
 Describes 22 species collected near Green Cove Spring, Florida.
260. ——— New Florida Fungi. *Jour. Myc.* I. 97-101. Aug. 1885.
 Notes and descriptions of 15 species, some from New York, New Jersey, and Lake Superior. Descriptions also given in *Hedwigia*, XXV. 40-44.

261. ——— New Fungi. *Jour. Myc.* II. 128, 130. Nov. 1886.

Descriptions of 11 species, principally *Phyllostictae*, from different localities.

Endlicher, Stephan Ladislaus. Pressburg, 24 June, 1804. †Vienna, 28 March, 1848.

262. Genera Plantarum secundum ordines naturales disposita. 4^o pp. LX. 1483. Vienna. 1836-1840.

Includes descriptions of American genera of fungi taken from original sources. Nothing of importance in supplements.

Engelmann, George. Frankfort-on-the-Main, 2 Feb. 1809. †St. Louis, 4 Feb. 1884. See de BARY, A. See GOETHE, R.

263. — Diseases of grapes. *Trans. Acad. Sci. St. Louis*, II. 165, 166. Read 16 Sept. 1861.

The report of proceedings of this meeting contains some remarks on *Peronospora viticola* and the black rot, said to be caused by *Naemaspora ampeliscida*. See also de BARY, A. Also given in full in *Am. Pomol. Soc. Session* 1879, pp. 41, 42.

264. — Oak and grape fungi. *Trans. Acad. Sci. St. Louis*, III. ccxvi., ccxvi. 1878. Read 5 June, 1876.

Notes on *Phoma viticola*, *Depazea Labruscae*, and a new species, *Septoria Quercu*, the latter not described.

265. — Illustrated descriptive catalogue of American grape vines. A grape-growers' manual. 4^o pp. 153. St. Louis. 1883. 3d ed.

The so-called Bushberg Catalogue of Bush & Son & Meissner, of which earlier editions appeared in 1869 and 1875. Has on pp. 47-48, a notice of diseases of the grape vine by Engelmann, including *Peronospora viticola*, *Oidium*, and *Phoma uricola*. Not in earlier editions which, like 3d ed., have general notices of grape diseases by the editors.

Everhart, Benjamin Matlack. West White-land, near West Chester, Pa., 24 April, 1818. See ELLIS, J. B. See EXSICCATI in Supplement.

Farlow, William Gilson. Boston, Mass., 17 Dec. 1844.

266. The Potato Rot. *Bull. Bussey Inst.* I. 319-338. Fig. 7. 1875.

A popular account of potato rot, lettuce mould, etc.

267. — On a disease of Olive and Orange Trees, occurring in California in the spring and summer of 1875. *Bull. Bussey Inst.* I. 404-414. Pl. 1. March, 1876.

Detailed account of *Capnodium Citri* and the injury done by it, with notes on synonymy. Rev. in *Pacific Rural Press*, XXV. 208. 10 March, 1883. See no. 270.

268. — On the American grape-vine mildew. *Bull. Bussey Inst.* I. 415-429. Pl. 2, 3. March, 1876.

Account of the development of *Peronospora viticola*, followed by a synopsis of the *Peronosporae* of the United States, in which 9 species are described. Rev. in *Jour. Roy. Hort. Soc. V.* 2 ser. 68-76. See no. 270.

269. — List of fungi found in the vicinity of Boston. *Bull. Bussey Inst.* I. 430-439, March, 1876; — II. 224-252, Jan. 1878.

Part 1 gives an enumeration of 242 species, with localities and hosts. Part 2, an enumeration of 121 additional species, with critical notes on *Chytridiaceae*, one new species described, *Uredineae*, *Gasteromycetes*, and other orders, besides a supplementary note with descriptions of *Hendersonia Curtisii*, Berk., *H. nobilis*, B. and C., and *H. pubens*, B. and C., from the Curtis herbarium. See no. 270.

270. — The Black Knot. *Bull. Bussey Inst.* I. 440-454. Pl. 4-6. March, 1876.

Detailed account of the anatomy and action of *Sphaeria morbosa*, Schw. Rev. in *North Am. Entomol.* I. 13-15. This paper, bound with no. 267 and 268 and the first part of no. 269, was issued as a separate pamphlet, with original paging, March, 1876.

Farlow, William Gilson.

271. Onion Smut, an essay presented to the Massachusetts Society for Promoting Agriculture, pp. 15, pl. 1, and fig. 5. Boston. 1877. Extr. 24th Rept. Mass. Board Agr. for 1876. Part 2. pp. 164-176.

Account of *Urocystis Cepulae*, and damage done by it in New England, with a note on *Papulaspora sepedonioides*. Rev. in *Grevillea*, V. 158; and *Gard. Chron.* 1877. pp. 441 and 634.

272. — Notes on some common diseases caused by fungi. *Bull. Bussey Inst.* II. 106-114. Pl. 1. 1877.

Notes on *Sphaeria morbosa*, *Urocystis Cepulae*, etc., with account of *Ucinula spiralis* and its action, with figures. Rev. in *Jour. Roy. Hort. Soc. V.* new ser. 69-71. Plate also given in *Rural New-Yorker*. 30 Jan. 1886.

273. — Diseases of fruit-bearing trees. 25th Rept. Mass. Board Agr. for 1877. pp. 218-233 (1-16). Fig. 7. 1878.

Popular account of black-knot of plums, grape moulds, etc., with figures from author's previous papers.

274. — On the synonymy of some species of *Uredineae*. *Proc. Amer. Acad. Arts and Sci.* Boston, XIII. (V. n. s.) 251, 252 (262, 263). 1878. Read Feb. 1878.

Notes on nomenclature of a *Uromyces* on *Brizopyrum*, *Ramularia* on *Rumex*, and a *Puccinia* on *Malvastrum*, in California. By a misprint, pages of reprint differ from original.

275. — Diseases of forest trees. *Trans. Mass. Hort. Soc.* for 1879. Part 1. pp. 44-46. 1879.

Abstract of popular lecture. Substance given in *Bot. Gaz.* IV. 244.

276. — The *Gymnosporangia* or cedar apples of the United States. *Anniversary Memoirs Soc. Nat. Hist.* Boston. pp. 1-38. Pl. 1, 2. 1880.

Description of the *Gymnosporangia* and *Roesteliae* of the United States, with account of cultures made to show the connection of the species of the two genera. One hundred reprints issued. As paper is hard to obtain, consult following reviews. *Bot. Gaz.* VI. 209; *Am. Nat.* XV. 471; *Torr. Bull.* VIII. 71; *Grevillea*, IX. 138.

277. — Unusual habitat of a *Coprinus*. *Torr. Bull.* VIII. 67. June, 1881.

Notes the occurrence of *C. stercorarius* on water containing algae.

278. — Notes on *Gymnosporangia*. *Torr. Bull.* VIII. 85-87. Aug. 1881.

New localities of *Gymnosporangia* and *Calyptospora*.

279. — Notes on some species in the 3d and 11th centuries of Ellis's North American Fungi. *Proc. Am. Acad. Arts and Sci.* Boston, XVIII. (X. n. s.) 65-85. 1883. Issued July, 1883.

Critical notes on several *Peronosporae*, *Uredineae*, and *Exoasci* of this series, with descriptions of 7 new species, one from Bermuda, preceded by general remarks on nomenclature of *Uredineae*. Rev. in *Bot. Gaz.* VIII. 302.

280. — Note on *Phallus togatus*, Kalchb. *Bot. Gaz.* VIII. 258, 259. July, 1883.

Notes on the nomenclature of the *Dictyophorae* of the United States. *P. togatus*, Kalchbr., referred to *P. duplicatus*, Bosc. See KALCHBRENNER, K.

281. — Notes on some *Ustilagineae* of the United States. *Bot. Gaz.* VIII. 271-278 (1-7). Aug. 1883.

General notes on *Ustilagineae* of the United States, with synopsis of species of the genus *Entyloma* in the United States, with descriptions of 4 new species, and description of *Doassansia Epilobii*.

282. — Additional note on *Ustilagineae*. *Bot. Gaz.* VIII. 318. Oct. 1883.

Notes on the *Doassansia* and other species mentioned in last-named paper.

283. — Enumeration of the *Peronosporae* of the United States. *Bot. Gaz.* VIII. 305-315, 327-337. Oct., Nov. 1883.

Descriptions and synonymy of 35 species known in this country, 5 new species, with list of hosts. See no. 285.

284. — Notes on the cryptogamic flora of the White Mountains. *Appalachia*, III. 232-251. Jan. 1884.

Enumeration of 108 fungi, pp. 237-251, 8 new species described, including 3 given also in *Bot. Gaz.* VIII. 275-277. Critical notes on several of the species, including an account of the *Peridermia* of the White Mountains. pp. 239-243. Rev. in *Rev. Myc.* VI. 129.

285. — Additions to the *Peronosporae* of the United States. *Bot. Gaz.* IX. 37-40. March, 1884.

Two species and one variety new to the United States, with new hosts for 13 species enumerated in paper above. See no. 283.

286. — Maladies des morues sèches. *Rev. Myc.* VI. 197-199. Pl. 49. Fig. 1, 2. July, 1884.

Description of *Sarcina Morrhuae* and *Oidium (Torula) pulvinatum*, with figure. See also foot-note in *Rev. Myc.* VII. 17, for correction.

287. — Notes on a fungus parasitic on species of *Potamogeton*. *Trans. Field-Naturalists' Club*, Ottawa, II. 127-129 (1-3). 1884.

Notes on *Doassansia Farlowii* received from Dr. J. Fletcher.

288. — Notes on fungi. *Bot. Gaz.* X. 219-221. Feb. 1885.

Remarks, with corrections of statements in papers here numbered 279 and 281.

289. — Notes on some species of *Gymnosporangium* and *Chrysomyxa* of the United States. *Proc. Am. Acad. Arts and Sci.* Boston, XX. (XII. n. s.) 311-323. 1885. Read 11 Feb. 1885.

Summary of cultures of spores of *Gymnosporangia* made by author up to date, with additional remarks on the *Peridermia* and *Chrysomyxae* of the White Mountains and other localities. Rev. in *Jour. Myc.* I. 45.

290. — The *Synchytria* of the United States. *Bot. Gaz.* X. 235-245. Pl. 4. March, 1885.

Synopsis of species in the United States, two of them new.

291. — Notes on some injurious fungi of California. *Bot. Gaz.* X. 346-348, Oct. 1885; and *Proc. Am. Ass. Adv. Sci.* XXXIV. 300-303. Also in *Proc. Soc. Prom. Agr. Sci.* 1885. pp. 29-31.

Account of *Peronospora Hyoscyami* and *Puccinia Malvastrum* in California.

292. — Vegetable parasites of codfish. *Bull. U. S. Fish Comm.* VI. 1-4. Fig. 2. 1886.

Summary of papers on the subject, including fungi from paper no. 286, with additional notes.

293. — Development of *Roesteliae* from *Gymnosporangia*. *Bot. Gaz.* XI. 189, 190. July, 1886.

Preliminary report. See next title.

294. — The development of the *Gymnosporangia* of the United States. *Bot. Gaz.* XI. 234-241. Sept. 1886.

Paper read at the meeting of the Am. Ass. Adv. Sci. at Buffalo, N. Y., Aug. 1886, giving results of cultures made by B. D. Halsted and R. Thaxter, etc. Abstr. in *Proc. Am. Ass. Adv. Sci.* XXXV. 254. The paper by Thaxter, not here included, issued Jan. 1887, in *Proc. Am. Acad.* Boston.

295. — On a supposed disease of roses caused by a fungus. *Proc. 1th Ann. Meeting Soc. Prom. Agr. Sci.* pp. 24, 25. Columbus, O. 1886.

Read at the meeting at Buffalo in August; issued in November. *Leptothyrium chromospermum*, Peck, on roses, said to be the spores of a *Pilobolus*, and *Gymnosporium harknessioides*, Ellis and Holway, considered to be spores of some ascomycetous fungus.

Farlow, William Gilson.

296. *Puccinia Malvacearum*, Mont., in Massachusetts. *Bot. Gaz.* XI. 309, 310. Nov. 1886.

Reports the discovery of this species on *Althaea rosea* at Beverly, Mass.

Field, Martin.

297. On the origin of ergot. *Am. Jour. Sci. Arts*, IX. 359-362. June, 1825.

Letter, with notes, on ergot in Vermont. Of little value at the present day.

Fisch, C.

298. Entwicklungsgeschichte von *Doassansia Sagittariae*. *Ber. Deutsch. Bot. Gesell.* II. 405-416. Pl. 10. Oct. 1884.

Includes a reference to *D. Epilobii* of the United States.

Fischer, Eduard.

299. Beitrag zur kenntniss der gattung *Graphiola*. *Bot. Zeit.* XLI. 745-756, 761-773, 777-788, 793-801. Pl. 6. Nov. 1883.

Includes accounts, with figures, of *G. Phoenicis*, *G. congesta*, and *G. compressa*, the latter new, from United States.

300. — Versuch einer systematischen Uebersicht über die bisher bekannten *Phalloideen*. *Jahrbuch des Bot. Gart. und Bot. Mus. zu Berlin*, IV. 1-92. Pl. 1. 1886.

General account of this group followed by full descriptions, including species of the United States. *Rev. in Am. Nat.* XX. 804. 1886.

Fischer de Waldheim, Alexandre.

301. Beiträge zur biologie und entwickelungsgeschichte der *Ustilagineen*. *Fringsheim Jarhb.* VII. 61-144. Pl. 7-12. 1869.

Does not refer specially to species of the United States. Given here because an English translation of the work was given in *Trans. N. Y. State Agr. Soc.* for 1870. pp. 280-354. Pl. 1-6. Albany. 1871.

302. — Aperçu systématique des *Ustilaginées*, leurs plantes nourricières et la localisation de leurs spores. 4° pp. 51. Paris. 1877.

Paper presented at the International Botanical Congress at Amsterdam. Preliminary account of species published in full in *Ann. Sci. Nat. Bot.* See no. 304.

303. — Revue des plantes nourricières des *Ustilaginées*. 8° pp. 20. Moscow. 1877. *Extr. Bull. Soc. Imp. Nat.* LII. 312-331. Moscow. 1877.

Taken from work named above, with emendations.

304. — Les *Ustilaginées* et leurs plantes nourricières. *Ann. Sci. Nat. Bot.* 6 ser. IV. 190-276. 1876. (1877.)

General account of the order, followed by descriptions of all known species, including American forms, with host-index and index of organs attacked by these fungi. Also in Polish, with additional synonymy "Les Ustilaginées, esquisse monographie," part 1, pp. 15, 1877; part 2, pp. 131, 1878. Warsaw.

Forster, John Reinhold. Dirschau, 22 Oct. 1729. †Halle, 9 Dec. 1798.

305. Travels through that part of North America formerly called Louisiana by Mr. Bossu, Captain of the French marines. Translated from the French by John Reinhold Forster, F.A.S. Illustrated, with notes relative chiefly to Natural History. To which is added by the translator a systematic catalogue of all the known plants of English North America, or, a Flora Americae Septentrionalis, together with an abstract of the most useful and necessary articles contained in Peter Loefling's travels through Spain and Cumana in South America. 8° Vol. I., II. pp. 407, 432. London. 1771.

On II. p. 68, is a list of 6 fungi from Virginia and Carolina. The catalogue of plants was also issued separately.

306. **Fortieth Parallel Expedition**, Fungi of. See BILLINGS, J. S., and FROST, C. C.

Fowler, James. Bartibog, Miramichi, N. B., 17 July, 1829.

307. List of New Brunswick plants. *Ann. Rept. Secretary Agr., Province New Brunswick, for 1878.* Appendix B. pp. 35-63. Fredericton, N. B. 1879.

On p. 63 a list of 55 fungi, with hosts and localities. Also in *Educational Circular*, no. 9. Fredericton. 1880.

Fries, Elias Magnus. Femsjö, Smoland, 15 Aug. 1794. †Upsal, 8 Feb. 1878.

308. *Observationes Mycologicae*. 12° Vol. I. pp. 230. Pl. 1-4. 1815. — Vol. II. pp. 372. Pl. 5-8. 1818. Copenhagen.

Notes on a small number of Schweinitzian species.

309. *Systema Mycologicum, sistens fungorum ordines, genera et species, huc usque cognitae, quas ad normam methodi naturalis determinavit, disposuit atque descripsit Elias Fries*. 12° Vol. I. pp. 520. Lund. 1821. — Vol. II. 2 parts. pp. 620. Lund. 1822-23. — Vol. III. pp. 524, with Index, pp. 202, of genera, species, and synonyms in the *Systema Mycologicum* and *Elenchus Fungorum*. Greifswald. 1832.

Includes descriptions and revisions of a considerable number of American fungi, especially species of Schweinitz and Muhlenberg. See no. 311.

310. — *Systema orbis vegetabilis primas lineas novae constructionis periclitatur Elias Fries. Pars 1. Plantae Homonemeae*. 12° pp. 374. Lund. 1825.

Has references to genera and species of Bosc and of Schweinitz's Syn. Fung. Car. Sup.

311. — *Elenchus Fungorum, sistens commentarium in Systema Mycologicum*. 12° Vol. I. pp. 238. Vol. II. pp. 154. Greifswald. 1828.

This is the title given to the whole work in copies seen. There is a secondary title for each part, same as title here given, no. 309, to which is added "Supplementa voluminis primi—secundi. 1830." This work is in fact a supplement to vols. I. and II. of the *Systema Mycologicum*, and the contents are indexed in vol. III. of the *Systema*, published two years later.

312. — *Genera Hymenomycetum*. 8° pp. 17. Upsal. 1836.

Has notes on *Thelophora sistotremoides* and *T. pedicellata* of Schweinitz.

313. — *Synopsis generis Lentinorum*. 8° pp. 15. Upsal. 1836.

Includes descriptions of 10 species from the United States, among them *Agaricus chama*, Bosc, referred to *Lentinus*.

314. — *Epicrisis systematis mycologici, seu synopsis Hymenomycetum*. 8° pp. 608. Upsal. 1836-1838.

Includes descriptions and revisions of American species.

315. — *Summa vegetabilium Scandinaviae, seu enumeratio systematica et critica plantarum quum cotyledonearum tum nemearum inter mare occidentale et album inter Eidoram et Nordkap hactenus lectarum indicata simul distributione geographica*. 8° 2 parts. pp. viii. 572. 1846-1849. Stockholm and Leipsic.

In the second part is an enumeration and generic revision of fungi, pp. 261-525, 563, 564, including a considerable number of revisions of American genera, principally Schweinitzian.

316. — *Novae Symbolae Mycologicae in peregrinis terris a botanicis Danicis collectae. Nova Acta. Sci.* Upsal, I. 17-136. 1851.

Includes notes on or descriptions of 54 species from the United States, mostly collected by M. A. Curtis and Schweinitz, some by H. W. Ravenel and Lindblom, and a number from the herbarium of E. Tuckerman.

317. — *Novarum symbolarum mycologicarum mantissa. Nova Acta. Sci.* Upsal, I. 225-231. 1851.

Continuation of previous paper, including 20 species principally from Mexico and St. Thomas, W. I., but none credited to the United States.

Fries, Elias Magnus.

318. *Queletia*, novum *Lycoperdacearum* genus. Accedit nova *Gyromitriæ* species, *Oefv. Kl. Vetensk. Akad. Förhand.* XXVIII. 171-174. Pl. 4. 1871.

The *Morchella Caroliniana* of Bosc, referred to *Gyromitra*.

Frost, Charles Christopher. Brattleboro, Vt., 11 Nov. 1805. †Brattleboro, 16 March, 1880. See BILLINGS, J. S. See PECK, C. H. See TUCKERMAN, E.

319. — Further enumeration of New England Fungi. *Proc. Soc. Nat. Hist.* Boston, XII. 77-81. 1869. Read 20 May, 1868.

Continuation of paper by C. J. Sprague, l. c. V. 325, and VI. 315. A list of 263 species, without localities, some of the species not described at the time, and the names, apparently manuscript names, given by M. A. Curtis.

320. — Catalogue of *Boleti* of New England, with descriptions of new species. *Bull. Soc. Nat. Sci.* Buffalo, II. 100-105. June, 1874.

Enumeration of 47 species, 21 described as new by the author. Also one species by J. L. Russell and one of Berkeley and Curtis. See also Peck's 29th Rept. p. 45, and 38th Rept. p. 110.

N. B. The paper by this author, "Catalogue of cryptogamous or flowerless plants of Vermont," in Archives of Science, Newport, Vt., I. — III. does not include fungi.

Fuckel, Leopold. Ostrich-on-the-Rhine. †Vienna, 8 May, 1876. See BONORDEN, H. F.

Gerard, William Ruggles. Newburgh, N. Y., 29 March, 1841. See BULLETIN TORREY CLUB.

321. New species of fungi. *Torr. Bull.* IV. 47, 48, Oct. 1873; l. c. 64, Dec. 1873; — V. 26, 27, June, 1874; l. c. 39, 40, Sept. 1874; — VI. 31, 32, April, 1875; l. c. 77, 78, Feb. 1876.

Description of 48 new species, principally from Poughkeepsie, N. Y. Some of the species attributed to Cooke and Gerard. The species in parts 1, 3, and 5 also given in *Hedwigia*, XIII. 28, 29, 111, 112; XIV. 188-190. See also no. 324.

322. — White mildews or blights. *Proc. Soc. Nat. Sci.* Poughkeepsie, I. 2-16. Pl. 1-4. 8 Feb. 1875.

General account of classification of fungi, with plate, including figure of *Hysterium magnosporium*, Gerard, followed by detailed account of *Erysiphe*, with figures of 23 species and description of *Microspheera Van Bruntiana*, Gerard. Plate 1 of reprint is colored.

323. — Spurious fungi. *Torr. Bull.* VI. 114, Oct. 1876.

States, on the authority of C. V. Riley, that *Rhytisma Solidaginis*, Schw., and *R. Asteris*, Schw., are insect galls.

324. — Descriptions of new fungi. *Proc. Soc. Nat. Sci.* Poughkeepsie, I. 85-87. Read 1 Nov. 1876.

Descriptions of 11 species, 7 previously described in *Torr. Bull.* VI. 77, 78.

325. — A truffle new to the North American flora. *Torr. Bull.* VI. 276. Nov. 1878.

Reports the discovery of *Tuber dryophilum* in Staten Island; also notes on distribution of truffles in the United States. Also given in *Proc. Soc. Nat. Sci.* Poughkeepsie, 20 Nov. 1878, pp. 18, 19.

326. — The *Saprolegnia ferax*. *Proc. Soc. Nat. Sci.* Poughkeepsie. 18 Dec. 1878. pp. 25-28.

327. — A new fungus. *Torr. Bull.* VII. 8-11. Pl. 1, 2. Jan. 1880.

Description and figure of *Simblum rubescens*, followed by a "List of United States *Phalloidei*," in which 13 species are enumerated. See *Rev. Myc.* II. 93. Pl. 6. Fig. 1.

328. — Additions to the U. S. *Phalloidei*. *Torr. Bull.* VII. 29, 30. March, 1880.

Supplementary notes on last-named paper, with remarks on some species of Rafinesque.

329. — Correlation between the odor of the *Phalloids* and their relative frequency. *Torr. Bull.* VII. 30-33. March, 1880.

330. — The preservation of pileate fungi for the herbarium. *Torr. Bull.* VIII. 14-16. Feb. 1881.

Description of several methods. See also *Torr. Bull.* VIII. 32 *et seq.*, for account of G. Herpell's method.

331. — Some fungi from New Mexico. *Torr. Bull.* VIII. 34. March, 1881.

Enumeration of 5 species, one described as new, *Aecidium Rusbyi*.

332. — Reliquiae Rafinesquianae. *Torr. Bull.* XII. 37, 38. April, 1885.

Includes notes on 31 species of fungi in Rafinesque's "Select new plants of North America," of which there is a set of the proofs of unpublished plates in the library of the New York Academy of Science.

N. B. Species of new fungi by W. R. Gerard are included in Peck's 24th, 25th, and 26th Reports. Title no. 120 includes a letter from Gerard.

Goethe, Robert.

333. Mittheilungen über den schwarzen Brenner. pp. 22. Berlin and Leipsic. 1878.

Original not seen. An abstract is given in English in *Proc. Am. Pomol. Soc. Session* 1879, pp. 44-46, entitled "Abstract of a treatise on the anthracnose (*Sphaeceloma ampelinum*), which includes references to Engelmann's paper on grape rots.

Goodale, George Lincoln. Saco, Me., 3 Aug. 1839. See AMERICAN NATURALIST.

Gore, James Howard. Frederick Co., Virginia, 18 Sept. 1856.

334. Tuckahoe or Indian bread. *Rept. Smithsonian Inst.* for 1881. pp. 687-701 (1-13). Fig. 5. Washington. 1883.

Account of properties and structure of tuckahoe, with summary of writings on the subject.

Gray, George Robert.

335. Notices of insects that are known to form the bases of fungoid parasites. 4°. pp. 22. Pl. 6. 1858.

Privately printed by the author. No place of publication given on title-page, but probably London. A general summary, with full account of literature of the subject, including American references and good plates reproduced from various sources.

Greeley Expedition, Fungi of. See ELLIS, J. B., and EVERHART, B. M.

336. **Grevillea.** A monthly (quarterly) record of cryptogamic botany and its literature. Edited by M. C. Cooke. 8°. Illustr. Vol. I.-XV. July, 1872-Jan. 1887. London. To be continued.

Issued in monthly parts, from July, 1872-June, 1874, vols. I, II. From Sept. 1874 to present time issued quarterly. Includes all orders of cryptogams. Titles of papers on American fungi in this journal given here under authors' names. Reviews by the editor.

Gronovius, Jan Fredrik. 1690. †1762.

337. Flora Virginica exhibens plantas quas V. C. Johannes Clayton in Virginia observavit atque collegit. Eadem methodo sexuali disposuit, ad genera propria retulit, nominibus specificis insignivit et minus cognitatis descripsit Joh. Fred. Gronovius. 8°. Part 1, pp. 128, and index. 1739. Part 2, pp. 129-206, preface and index. Leyden. 1743.

Part 1, p. 128, gives a list of 3 fungi. Part 2, p. 205, 7 fungi, including Tuckahoe. In the 2d edition of this work, published in 1762, pp. 176, index and map, 4°, is a list of 20 fungi, pp. 174-176.

Hagen, Hermann August. Königsberg, Prussia, 30 May, 1817.

338. Destruction of obnoxious insects, *Phylloxera*, potato-beetle, cotton-worm, Colorado grasshopper, and greenhouse pests, by application of the yeast fungus. 8°. pp. 11. Cambridge. 1879.

A paper reprinted, with slight modifications, from *Canadian Entomologist*, XI. 110-114. Recommends an application of yeast for destroying insects, and gives the results of application in certain cases.

Hagen, Hermann August.

339. On the destruction of obnoxious insects by yeast. *Canadian Entomologist*, XII. 81-83. May, 1880.

Supplementary to last-named paper, with notes on the botanical relations of *Entomophthorae*.

340. — *Cordyceps Ravenelii* on the larvae of *Phyllophaga*. *Canadian Entomologist*, XII. 89. May, 1880.

341. — Experiments with yeast in destroying insects. *Canadian Entomologist*, XIV. 38, 39. Feb. 1882.

Gives a letter from Thomas H. Hart, relating his success in applying yeast, from which certain conclusions are drawn.

Hallier, Ernst.

342. *Coniothecium Stilesianum*. *Rept. N. Y. State Agr. Soc. for 1867*, XXVII. part 2, 1149, 1150.

A letter from Hallier, including an account of this fungus, supposed to be the cause of Texas cattle fever. Also a letter from Hallier on p. 1146.

Halsey, Abraham.

343. Remarks on certain entozoical fungi. *Ann. Lyc. Nat. Hist. New York*, I. 125, 126. April, 1824.

Notice of exotic forms and brief reference to *Isaria Sphingum*, Schw.

Halsted, Byron David. Venice, Cayuga Co., N. Y., 7 June, 1852.

344. Our common moulds. *Pop. Sci. Month. IX*. 398-409. Fig. 13. Aug. 1876.

345. — Injurious and other fungi. *Trans. Mass. Hort. Soc. for 1877*. Part 1. pp. 28-44. Pl. 1-3. Read 27 Jan. 1877.

Brief account of several common diseases of fungi, wheat blight, grape mould, black knot, etc.

346. — Fungi injurious to farmers. *Register of Rural Affairs*, VIII. 181-187. Fig. 5. Also in *Rept. Connecticut Board Agr. for 1881*.

347. — The white mildews. *Am. Pomolog. Soc. Session 1883*, pp. 87-89.

An account of several species of *Perisporiaceae* and the harm done by them.

348. — How fungi live in winter. *Pop. Sci. Month. XXVI*. 611-620. Fig. 1-12. March, 1885.

Account of resting condition of several species.

349. — A new Iowa *Aecidium*. *Jour. Myc. II*. 52. May, 1886.

Description of *Aecidium Phrymae*.

350. — *Gymnosporangium macropus* on *Pirus coronaria*. *Bot. Gaz. XI*. 190, 191. July, 1886.

Account of open-air cultures made at Ames, Iowa, to show the development of the aecidia in this species. See also paper entitled "The wild crab apple" in *Country Gentleman*, 21 Oct. 1886.

351. — An interesting *Peronospora*. *Bot. Gaz. XI*. 272. Pl. 8. Fig. a. b. Oct. 1886.

Account of *P. graminicola* in Iowa.

The following papers from the *American Agriculturist*, New York, should also be noted: "The American grape mildew," 1879, p. 348, fig. 5; also in *Michigan Pomol. Rep.* 1877, p. 134; — "What are fungi?" 1879, p. 268, fig. 4; — "The Wheat Rust," 1879, p. 301, fig. 6; — "Ergot," 1879, p. 388, fig. 8; — "Apple-leaf fungus," 1879, p. 468, fig. 5; — "White Mildews," 1879, p. 508, fig. 4; — "Black Knot," 1880, p. 22, fig. 6; — "Onion Smut," 1880, p. 104, fig. 3; — "Lettuce Mould," 1880, p. 148, fig. 3; — "Elderberry fungus," 1880, p. 234, fig. 1; — "The Corn Smut," 1880, p. 475, fig. 4; — "Wheat, oat, and barley smut," 1881, p. 404, fig. 3.

Hanbury, Daniel. 11 Sept. 1825. †London, 24 March, 1875. See CURREY, F.

Harkness, Harvey Wilson. Pelham, Mass., 25 May, 1821. See COOKE, M. C. See ELLIS, J. B. See PHILLIPS, W. See FLOWRIGHT, C. B.

352. — A Foe to the Lumberman. *Pacific Rural Press*, XVII. 49. Fig. 2. 25 Jan. 1879.

Account of a fungus, *Daedalea vorax*, which attacks the wood of *Abies Douglasii*.

353. — Fungi injurious to fruit-trees. *Ann. Rept. State Board Hort. California*, 1883. pp. 51-59 (1-8).

General account of diseases of plants caused by fungi, with notices of *Peridermium Harknessii*, *Daedalea vorax*, *Sphaeria morbosa*, *Capnodium Citri*, *Phyllosticta circumscissa*, and other fungi.

354. — New species of Californian Fungi. *Bull. Cal. Acad. Sci. I*. 29-47. Feb. 1884.

Descriptions of 4 new genera, *Camposporium*, *Troposporium Thecospora*, *Cleistosoma*, and 71 new species.

355. — Fungi of the Pacific Coast. *Bull. Cal. Acad. Sci. I*. 159-176, pl. 1, Feb. 1885; I. c. 256-271 (1-16), 19 Nov. 1885.

Part 1 gives an enumeration of 192 species, with hosts and habitats, and descriptions of 10 new species and 2 new genera, *Dicranidion* and *Geopora*, with plate of *Lycoperdon sculptum*. Part 2 is an enumeration of 171 species, with hosts, localities, and notes, including one new species, *Secotium nubigenum*, followed by a list of 50 species from the Harkness herbarium, previously described in *Grevillea*, XIII. 111-114; and XIV. 8-10. See no. 168. See *Rev. Myc.* VII. 253.

N. B. The paper by this author on "White Mildew," read before the San Francisco Micros. Soc., 5 April, 1877, was not formally published, but distributed privately by the author. In this paper an account is given of pycnidia in *Erysiphe Graminis*. See also reviews of this paper by M. C. Cooke in *Grevillea*, V. 154, and *Gardeners' Chronicle*, 1877, pp. 441 and 634.

— and MOORE, J. P.

356. Catalogue of the Pacific Coast Fungi. Published under the direction of the California Academy of Sciences. 8°. pp. 46. Read 2 Feb. 1880.

An enumeration of 842 species of fungi from California, with hosts and localities, and 2 from the Sandwich Islands. One new species, *Agaricus tridens*, is described. This Catalogue was issued separately, and did not appear in any volume of the bulletins of the California Academy. *Rev. in Torr. Bull.* VII. 58, and *Rev. Myc.* VII. 253.

Hayden, Ferdinand Vandever. Westfield, Mass., 7 Sept. 1829.

357. Sixth Annual Report of the United States Geological Survey of the Territories, embracing portions of Montana, Idaho, Wyoming and Utah, being a report of progress of the explorations for the year 1872. 8°. pp. 844. Washington. 1873. Botany by J. M. Coulter. pp. 747-792.

Includes on last page a list of 10 fungi, with descriptions of two new species, *Peziza vulcanalis* and *Sphaeria Coulteri*, by C. H. Peck.

358. **Hedwigia**. Ein notizblatt für kryptogamische studien. Vol. I.-XXV. May, 1852—Jan. 1887. To be continued. 8°. Dresden. Illustr.

Vol. I. extends from 1852-1857, and vol. II. from 1858-1863. Since that date there has been a volume annually. Until Nov. 1878, the editor was L. Rabenhorst, and since then G. Winter. With the exception of the first two volumes the numbers appeared monthly until 1885, when the journal was enlarged and the numbers issued bi-monthly. Includes all orders of cryptogams. Papers on American fungi, which are given here under authors' names, hardly go back farther than 1873.

Henry, Aimé. See NEES VON ESENBECK, T. F. L.

Herald, Voyage of. See SEEMAN, B.

Hesse, R.

359. Mikroskopische unterscheidungsmerkmale der typischen *Lycoperdaceen* genera. *Pringsheim Jahrb.* X. 383-398. Pl. 28, 29. 1876.

Gives a figure of capillitium of *Mitremyces lutescens*, Schw.

Hine, Frank Brooks. Berlin, Erie Co., O., 24 April, 1853.

360. Observations on several forms of *Saprolegniae*. *Am. Quart. Micros. Jour.* I. 18-28, 136-146 (1-20). Pl. 4-7. Oct. 1878-Jan. 1879.

Mentions 3 species of *Achlya* and one *Saprolegnia*, two species unnamed, and describes a new species, *Monoblepharis lateralis*.

Hitchcock, Edward. Deerfield, Mass., 24 May, 1793. †Amherst, Mass., 27 Feb. 1864.

361. Physiology of the *Gyropodium coccineum*. *Am. Jour. Sci. Arts*, IX. 56-60. Pl. 3. June, 1825.

Account of the peculiarities of *Mitremyces cinnabarinus*, Schw., with colored figures.

362. — Catalogue of the plants growing without cultivation in the vicinity of Amherst College. 8°. pp. 64. Amherst. 1829.

A list of all plants found within 40 or 50 miles of Amherst, including, on pp. 58-64, 49 genera and 170 species of fungi, the determinations apparently obtained from Prof. John Torrey, and indirectly from Muhlenberg and Schweinitz. The only copy of this rare work which we have examined was without title-page, and the title here given was taken from the reference in Tuckerman's Catalogue of plants within 30 miles of Amherst. See TUCKERMAN, E.

363. — Catalogues of the animals and plants of Massachusetts. 8°. pp. 142. Amherst. 1835.

Taken from "Report on the geology, mineralogy, botany, and zoölogy of Massachusetts." Amherst. 1835, pp. 525-652. On pp. 125-129 (645-649) is a list of fungi, alphabetically arranged, same as in last title, with 6 additional species, all but one of which, *Sphaeria Hypoxylon*, are also given in first edition of the Report, Amherst, 1833.

Hoffmann, Hermann.

364. Index Fungorum, sistens icones et specimina sicca nuperis temporibus edita; adiectis synonymis auctore Hermann Hoffmann. Indicis mycologici editio aucta. 8°. pp. vi. 153. Leipsic. 1863.

A general index of figures and exsiccata of fungi, including American species. This work is an enlarged edition of a pamphlet distributed as a supplement to the *Botanische Zeitung* for 1860.

Holway, Edward Willett (Dorland). Adrian, Mich., 13 Feb. 1853. See ELLIS, J. B.

365. Fungi on *Anemone nemorosa*. *Bot. Gaz.* V. 77. July, 1880.

List of 6 species found on this host.

366. — Sound of discharging ascospores. *Bot. Gaz.* VIII. 160. Jan. 1883.

Note on the sound produced by the discharge of spores in *Peiza pubida*.

367. — *Gymnosporium harknessioides*, Ell. and Hol. *Jour. Myc.* II. 52. May, 1886.

This species said to be merely spores of some *Sordaria*, *Chaetomium* or allied fungus.

Howe, Elliot Calvin. Jamaica, Windham Co., Vt., 14 Feb. 1828.

368. New Fungi. *Torr. Bull.* V. 3-4, 42, 43, Jan., Oct. 1874; — VI. 30, 31, April, 1875.

Descriptions of 17 species from New York. The parts of this series are numbered 1, 2, and 4. Part 3 appears never to have been published. Species of part 4 also given in *Hedwigia*, XIV. 188.

369. — *Agaricus (Tricholoma) Peckii*, Howe. *Torr. Bull.* VI. 66. Dec. 1875.

Characters of the species.

N. B. The descriptions of *Uncinula Americana* and *U. luculenta* by this author were not formally published, but were printed on sheets of note paper and distributed among botanists of his acquaintance. *Puccinia Peckiana*, by this author, is in Peck's 23d Report, p. 57.

Huse, William W.

370. The diseases of tobacco, or some inquiries into the causes, the appearance, and the preventives of tobacco-mould. 8°. pp. 36. New York. 1857.

Has a few woodcuts of fungi of slight value.

James, Joseph Francis. Cincinnati, 8 Feb. 1857.

371. Catalogue of the flowering plants, ferns, and fungi growing in the vicinity of Cincinnati. *Jour. Soc. Nat. Hist.* Cincinnati, II. 42-68 (1-27). April, 1879.

On pp. 22-27, a list of 319 fungi, taken from Lea's Catalogue. See no. 881.

Johnson, Asa Emery. Bridgewater, Oneida Co., N. Y., 16 March, 1825.

372. The mycological flora of Minnesota. *Bull. Acad. Nat. Sci. Minnesota*, I. 203-302, 325-344. 1877, 1878.

First part has an enumeration of 559 species, with habits, descriptions of two new *Agarici*, and of most of the genera, preceded by general notes on *Agaricini*. List of all species but one given also in 5th *Ann. Rept. Geol. and Nat. Hist. Survey, Minnesota*, pp. 66-87. St. Paul. 1877. The second part has enumeration of 83 species, 13 of them described as new.

373. *Journal of Mycology*. Vol. I.-II. 1885, 1886. To be continued. Monthly. 8°. Manhattan, Kansas. Edited by W. A. Kellerman, J. B. Ellis, and B. M. Everhart.

Treats of North American fungi, except a few notices of lichens. Each volume has an index of genera, species, and host plants. Articles given here under authors' names.

Kalchbrenner, Károly (Charles). 1806. †Waldendorf, Hungary, 5 June, 1886. See RAU, E. A.

374. Phalloidei novi vel minus cogniti. Természettudományok Köréből. Magyar Tudományos Akad. (*Mem. Hungarian Acad.*) X. 1-23. Pl. 1-3. Budapest. 1880.

In Hungarian, followed by Latin translation. Includes, on pp. 17, 18, a brief list of North American *Phalloidei*. Reprint only seen.

375. — Gasteromycetes novi vel minus cogniti. Természettudományok Köréből. Magyar Tudományos Akad. (*Mem. Hungarian Acad.*) XIII. 1-10. Pl. 1-5. Budapest. 1883.

Hungarian and Latin. Description of *Phallus togatus*, with colored figure. Pl. 1. See no. 280.

Kellerman, William Ashbrook. Ashville, O., 1 May, 1850. See ELLIS, J. B. See JOURNAL OF MYCOLOGY.

376. A partial list of the Kansas parasitic fungi, together with their host-plants. *Bull. Washburn Coll. Lab. Nat. Hist.* I. 72-81, Feb. 1885, and *Trans 16 & 17 Ann. Meetings Kansas Acad. Sci.* IX. 79-86. Topeka. 1885. Read Nov. 1884.

Enumeration of 181 species, and an index of host plants. One species described as new, the other new species described in *Am. Nat.* Nov. 1883, *Torr. Bull.* Oct. 1884, and *Jour. Myc.* Jan. 1885. See notice in *Jour. Myc.* I. 71.

376^a. — Some parasitic fungi that infest orchards and gardens. *Rept Kansas State Hort. Soc.* for 1884, XIV. 111-115. Topeka. 1885.

A popular account of plum blight, peach curl, grape mildew, and strawberry leaf blight.

Klotzsch, Johann Friedrich. See BERKELEY, M. J. Wittenberg, 9 June, 1805. †Berlin, 5 Nov. 1860.

377. Mycologische berichtigungen zu der nachgelassenen Sowerbyschen sammlung so wie zu den wenigen im Linnéschen Herbarium vorhandenen pilzen, nebst aufstellung einiger ausländischen gattungen und arten. *Linnaea*, VII. 193-204. Pl. 8-10. 1832.

Includes descriptions of *Farolus Canadensis* and *Testicularia Cyperi*, the latter figured.

378. — Fungi exotici e collectionibus Britannorum. *Linnaea*, VIII. 478-490. Pl. 11, 12. 1833.

Includes enumeration of 34 species from North America, seven described as new, mostly collected by Sir J. Richardson.

Koernicke, Friedrich.

379. Mykologische Beiträge. *Hedwigia*, XV. 178-186, Dec. 1876; — XVI. 1-3, 17-31, 33-40, Jan.—March, 1877.

Includes notes on United States *Uredineae* and *Ustilagineae*, with description of the new genus *Hamaspora*, founded on *Podisma Ellisii*, Berk.

Kunze, Gustav. Leipsic, 4 Oct. 1793. †Leipsic, 30 April, 1851.

— and **Schmidt, Johann Carl.**

380. Mykologische Hefte, nebst einem allgemeinen botanischen anzeiger. 8°. Vol. I. pp. xvi. 109, and some unnumbered supplementary pages. Pl. 2. Leipsic. 1817. — Vol. II. pp. xii. 176. Pl. 2. Leipsic. 1823.

A collection of short papers by the editors, with three papers by Ehrenberg, Fries, and Nees. Vol. I. 45-52, pl. 2, fig. 22, "Beschreibung der gattung *Solenarium*, Sprengel," by Kunze, gives an account of *S. Muehlenbergii* (*Glonium stellatum*) from Pennsylvania. Other papers do not treat of American fungi, although *Sphaeria sarmentorum* is recorded by Fries on *Menispermum Canadense* on II. p. 52.

Lea, Thomas Gibson. Wilmington, Del., 14 Dec. 1785. †Waynesville, O., 30 Sept. 1844. See **BERKELEY, M. J.**

381. Catalogue of plants, native and naturalized, collected in the vicinity of Cincinnati, O., during the years 1834-1844. 8°. pp. iv. 77. Philadelphia. 1849.

This catalogue was printed under the direction of Isaac Lea, after the death of his brother, whose collections were placed in the hands of W. S. Sullivan for publication, the fungi having been determined by Rev. M. J. Berkeley. On pp. 48-77 is a list of 319 species of fungi, with localities and dates of collection. In foot-notes are given observations on some of the species, and descriptions of 53 new species by Berkeley, some of which were previously described in "Decades of fungi"; see title no. 31. A few figures also given in Berkeley's Introduction; see title no. 38. Original copies are rare, but a reprint of the notes and descriptions of the present list will be found under the title "Descriptions of new species of fungi, collected in the vicinity of Cincinnati," *Jour. Soc. Nat. Hist. Cincinnati*, V. 197-217 (1-21). Dec. 1882. See also title no. 371. Rev. in *Am. Jour. Sci. Arts*, VIII. new ser., 302. 1849.

Leggett, W. H. See **BULLETIN TORREY CLUB.**

Leidy, Joseph. Philadelphia, 9 Sept. 1823.

382. On the existence of *Entophyta* in healthy animals as a natural condition. *Proc. Acad. Nat. Sci. Philadelphia*, IV. 225-233. 9 Oct. 1849.

Account of vegetable parasites, pp. 225-229, including descriptions of the new genera *Enterobrus*, *Cladophytum* and *Arthromitus*.

383. — Descriptions of new genera and species of *Entophyta*. *Proc. Acad. Nat. Sci. Philadelphia*, IV. 249, 250. 25 Dec. 1849.

Descriptions of the new genera *Corynocladus* and *Cryptodesma*, and new species of *Enterobrus* and *Cladophytum*.

384. — *Entophyta* in bodies of animals. *Proc. Acad. Nat. Sci. Philadelphia*, V. 7, 8. 12 Feb. 1850.

Remarks on *Mucor mucedo*, *Achlya prolifera*, and some unnamed species found in insects and cray-fish.

385. — Entophytes in insects and myriapods. *Proc. Acad. Nat. Sci. Philadelphia*, V. 8, 9. 19 Feb. 1850.

Remarks on species of *Enterobrus*, etc.

386. — Descriptions of new *Entophyta* growing within animals. *Proc. Acad. Nat. Sci. Philadelphia*, V. 35, 36. 30 April, 1850.

Description of one species of *Arthromitus* and two of a new genus, *Eccrina*.

387. — Fungus in a dead mole-cricket. *Proc. Acad. Nat. Sci. Philadelphia*, V. 204, 210, 211. 20 May—3 June, 1851.

Notes on an unnamed fungus attacking *Gryllotalpa Americana*, and general remarks on parasitic diseases of insects.

388. — Fungi in insects. *Proc. Acad. Nat. Sci. Philadelphia*, V. 235. 1 July, 1851.

Notes on a fungus in the abdomen of *Cicada septemdecim*, and one on a lamellicorn larva.

389. — A flora and fauna within living animals. *Smithsonian Contrib. to Knowledge*, V. 1-67. Pl. 1-10. April, 1853.

A detailed account, pp. 17-40, of forms mentioned in papers whose titles are given above, with plates. Most of the species would be placed at the present day in *Schizomyces*. Also on pp. 51-53, accounts of other fungi, including that which attacks *Cicada septemdecim*.

390. — Fungus parasite on a mouse. *Proc. Acad. Nat. Sci. Philadelphia*, pp. 260, 261. 22 April, 1873.

Describes a *Torula* or *Oidium* on a mouse caught in a hospital. Note also by Dr. Le Conte, who attributed a cutaneous eruption on his own person to infection from a similarly diseased mouse.

391. — On a fungus in a flamingo. *Proc. Acad. Nat. Sci. Philadelphia*, pp. 11, 12. Fig. 1. 19 Jan. 1875.

Finds an *Aspergillus*, which may be *A. nigrescens*, in lungs of a flamingo which was probably killed by the fungus.

392. — Ant infected with a fungus. *Proc. Acad. Nat. Sci. Philadelphia*, p. 9. 1 Jan. 1884.

Note on an undescribed fungus attacking *Camponotus pennsylvanicus*.

Lesquereux, Leo. Neuchâtel, 18 Nov. 1805.

393. Les *Rhizomorpha* du nouveau monde. *Rev. Myc.* III. 74. July, 1881.

Note on *R. subcorticalis* and malformed *Agaricini* from mines.

Léveillé, Joseph Henri. Crux-la-Ville, 28 May, 1796. †Paris, 3 Feb. 1870.

394. Champignons exotiques. *Ann. Sci. Nat. Bot.* 3 ser. II. 167-221; III. 38-71. 1844, 1845.

Contains notices of 6 species from North America.

395. — Descriptions des champignons de l'herbier du Muséum de Paris. *Ann. Sci. Nat. Bot.* 3 ser. V. 111-167, 249-304. 1846.

Notes on 14 species of North America, of which 7 are described as new.

Link, Heinrich Friedrich. Hildesheim, 2 Feb. 1767. †Berlin, 1 Jan. 1851.

396. Caroli a Linné Species Plantarum exhibentes plantas rite cognitatas ad genera relatas cum differentiis specificis, nominibus trivialibus, synonymis selectis, locis natalibus secundum systema sexuale digestas. Editio quarta, post Reichardianam quinta adjectis vegetabilibus hucusque cognitis olim curante Carolo Ludovico Willdenow, continuata a H. F. Link. Tomus, VI. Part 1. 8°. pp. xv. 162. Berlin. 1824. — Part 2. pp. vi. 128. Berlin. 1825.

The second part of vol. VI. contains *Gymnomycetes* (*Uredineae*, etc.), including species from Schweinitz, revised by Link.

Linnaeus, Carolus. See **LINK, H. F.** See **SPRENGEL, C.**

Machbride, James.

397. Some account of the *Lycoperdon solidum* of the Flora Virginica, the *Lycoperdon cervinum* of Walter. *Trans. Linn. Soc.* XII. 368-371. 1818. Read 3 June, 1817.

General account of tuckahoe.

Macoun, John. Maralin, Co. Down, Ireland, 17 April, 1832.

398. Edible and poisonous fungi. *Trans. Field-Naturalists' Club*, Ottawa, II. 62-67. Read 31 Jan. 1884.

A general address on the subject before the Society, with exhibition of plates.

Macoun, John.

399. List of plants collected on the coasts of Labrador, Hudson's Strait and Bay, by Robert Bell, in 1884. *Report of Progress of Geol. and Nat. Hist. Survey and Museum of Canada for 1882-1884*. Appendix DD. pp. 38-47. Montreal. 1885.

Includes on p. 47 a list of 10 fungi, named by J. B. Ellis.

400. *Manual of the natural history, geology, and physics of Greenland and the neighboring regions*; prepared for the use of the Arctic Expedition of 1875, under the direction of the Arctic Committee of the Royal Society, and edited by Prof. T. Rupert Jones, F.R.S., F.G.S., &c., together with instructions suggested by the Arctic Committee of the Royal Society for the use of the expedition. 8°. London. 1875. pp. 1-86 and 1-782.

The first part of this work contains general directions for collecting and observing. The second part, pp. 1-600, gives a summary of papers on Arctic plants and animals, with lists of species. For references to fungi in this work, see BERKELEY, M. J., BONORDEN, H. F., FÜCKEL, L., and SMITH, W. G.

Martin, George. Claymont, Delaware Co., Pa., 29 April, 1827. † West Chester, Pa., 28 Oct. 1886. See ELLIS, J. B.

401. Synopsis of the North American species of *Asterina*, *Dimerosporium*, and *Meliola*. *Jour. Myc. I.* 133-139, 144-148. Nov., Dec. 1885.

Descriptions of 31 *Asterinae*, with host index, 6 *Dimerosporia*, and 7 *Meliolae*.

402. — The *Phyllostictas* of North America. *Jour. Myc. II.* 13-20, 25-27. Feb., March, 1886.

Descriptions and notes on 70 species, with list of host-plants.

Martin, Lillie J.

403. A botanical study of the mite gall found on the black walnut. *Am. Nat. XIX.* 136-140. Pl. 4-6. Feb. 1885.

The *Erineum anomalum* of Schweinitz shown to be an insect-gall. Abstract given in *Proc. Am. Ass. Adv. Sci. XXXIII.* 507, 508.

Massachusetts, Province Laws of.

404. An Act to prevent damage to English grain arising from Barberry Bushes. Province laws of Massachusetts, 1736-1761, pp. 153, 154. Anno Regini Regis Georgii II., Vicesimo Octavo, Chap. X. Published 13 Jan. 1755.

Text of an act requiring the cutting down of barberry bushes in order to prevent the rust in grain. See *Am. Jour. Sci. Arts, XXV.* 3 ser. 315, 316, April, 1883.

Meehan, Thomas. Potter's Bar, near Barnet, Hertfordshire, England, 21 March, 1826.

405. Note on a fungoid root parasite. *Proc. Acad. Nat. Sci. Philadelphia*, p. 414. 2 Dec. 1873.

States that the Norway spruce suffers from some mycelium which attacks the roots.

406. — Change of habit through fungoid agency. *Proc. Acad. Nat. Sci. Philadelphia*, p. 146. 22 Sept. 1874.

Notes the change in habit of *Euphorbiae* attacked by an *Aecidium*.

407. — Influence of nutrition on form. *Proc. Acad. Nat. Sci. Philadelphia*, p. 329. 20 July, 1875.

Notes change in habit of *Portulaca* attacked by a fungus.

408. — Fungi and fruit diseases: are they cause or concomitant? *Am. Pomol. Soc., Session 1875*, pp. 51-54.

Notes of several diseases caused by fungi. States that he has seen *Roestelia cancellata* on apples.

409. — Note on *Phallus foetidus*. *Proc. Acad. Nat. Sci. Philadelphia*, pp. 194, 195. 3 Oct. 1876.

Reports this species at Germantown, Pa.

410. — Formation of crow's-nest branches in the cherry tree. *Proc. Acad. Nat. Sci. Philadelphia*, p. 273. 1 June, 1886.

Notes the occurrence of *Eroasus Wiesneri* on escaped cherry trees, near Germantown, Pa.

Merrill, F. J. H. See BULLETIN TORREY CLUB.

411. *Michelia*, commentarium mycologicae italicae, curante P. A. Saccardo. 8°. Vol. I. pp. 619. June, 1877—Sept. 1879. — Vol. II. pp. 682. 25 April, 1880—1 Dec. 1882. Padua.

Published at irregular intervals. Devoted exclusively to fungi. Two volumes have appeared up to present date. Includes some notices of United States fungi. See SACCARDO, P. A.

Mitchell, Samuel L.

412. Views of the process in nature by which, under particular circumstances, vegetables grow on the bodies of living animals. *Am. Jour. Sci. Arts, XII.* 21-28. June, 1827.

A letter to A. P. De Candolle, containing remarks on fungi which attack insects, with notes on forms known to the writer in the United States, especially that on *Melolontha*.

Montagne, (Jean François) Camille. Vaudoy, France, 15 Feb. 1784. † Paris, 5 Jan. 1866. See BERKELEY, M. J.

413. Troisième centurie de plantes cellulaires exotiques nouvelles. Décades 5-8. *Ann. Sci. Nat. Bot.* 2 ser. XVIII. 241-282. 1842.

Has descriptions of *Polyporus Sullivantii* and *Clavaria albipes* from Ohio.

414. — Quatrième centurie ditto. Décades 8-10. *Ann. Sci. Nat. Bot.* 2 ser. XX. 352-379. Pl. 15, 16. 1843.

Includes descriptions of 4 new species from the United States.

415. — Sixième centurie ditto. Décades 8-10. *Ann. Sci. Nat. Bot.* 3 ser. XII. 285-320. 1849.

Has emendation of the genus *Lichenopsis*, Schw., and notes on *Scorias spongiosa* and *Sphaeria lycopodina* from Newfoundland.

416. Huitième centurie ditto. Décades 6-7. *Ann. Sci. Nat. Bot.* 4 ser. VIII. 285-310. 1857. — Décades 9, 10, 1. c. XII. 167-192. 1859.

First part has notice of *Graphium Berkeleyi* from the United States. The second, *Sphaeria Desprauxii* from Newfoundland.

417. — Neuvième centurie ditto. Décades 1, 2. *Ann. Sci. Nat. Bot.* 4 ser. XIV. 167-185. Pl. 10, 11. 1860.

Includes description of *Agaricus Tagetes*, Berk. and Mont., from Ohio.

418. — Sylloge generum specierumque cryptogamarum quas in variis operibus descriptas iconibusque illustratas, nunc ad diagnosim reductas, nonnullasque novas interjectas, ordine systematico disposuit J. F. Cam. Montagne, M.D. 8°. pp. 498. Paris. 1856.

Besides a summary of species, including American, described by Montagne in various places, there are descriptions of 62 new species and 2 new varieties from the United States, 17 of them ascribed to Berkeley and Montagne. The greater part of the species collected in Ohio by W. S. Sullivan, who sent figures and specimens to Montagne.

Moore, Justin Payson. Augusta, Me., 1841. See HARKNESS, W. H. See PHILLIPS, W.

Morgan, Andrew Price. Centreville, near Dayton, O., 37 Oct. 1836. See CRAGIN, F. W.

419. The study of fungi. *Bot. Gaz. II.* 104, 105. May, 1877.

Urges the study and gives some statistics of United States fungi.

419^a. — Flora of the Miami Valley, Ohio. 12°. pp. 68. Dayton. 1878.

On pp. 59, 60 is a list of 37 species of fungi. The last 8 pages are entitled supplement for 1878, and include 42 additional species of fungi on pp. 67, 68.

- Morgan, Andrew Price.**
420. *Agaricus Morganii*, Peck. *Bot. Gaz.* IV. 208, 209. Sept. 1879.
Additional notes on this species.
421. — A new *Polyporus*. *Bot. Gaz.* VII. 135, 136. Nov. 1882.
Description of *Polyporus reniformis* from Ohio.
422. — Kentucky fungi. *Bot. Gaz.* VIII. 156, 157. Jan. 1883.
Enumeration of 27 species, all but one, *Hymenomyces*, with critical notes on several of them.
423. — The North American *Geasters*. *Am. Nat.* XVIII. 963-970. Oct. 1884.
Descriptions of 16 species, with figures. See also *Jour. Myc.* I. 11-13.
424. — The mycologic flora of the Miami Valley, O. *Jour. Soc. Nat. Hist. Cincinnati*, VI. 54-81, pl. 2-5, April, 1883; 97-117, July, 1883; 173-199, pl. 8, 9, Oct. 1883; — VII. 5-10, pl. 1, April, 1884; — VIII. 91-111, pl. 1, July, 1885; 163-174, Oct. 1885; — IX. 1-8, April, 1886.
Contains full descriptions of the *Agaricini* and *Polyporei* of the region, with critical notes and colored figures of some species. Twelve species are described as new. The last four pages of reprint of the fourth part of this series do not quite correspond to pages of the original.
- Morgan, L. V.**
425. Discharging ascospores. *Bot. Gaz.* VIII. 246. June, 1883.
Notes the sound in discharge of spores of *Peziza coccinea*.
- Mueller, Karl.** See SCHLECHTENDAL, D. F. L.
- Muhlenberg, Henry** (Gottlieb Heinrich Ernst). 1756. †Lancaster, Pa., 24 June, 1817. See TULLY, W.
426. Index Florae Lancastriensis. *Trans. Am. Phil. Soc. Philadelphia*, III. 157-184. 1793.
Includes an enumeration of 8 genera and 25 species of fungi on p. 184.
427. — Supplementum Indicis Florae Lancastriensis. *Trans. Am. Phil. Soc. Philadelphia*, IV. 235-242. 1799.
Includes an enumeration of 109 fungi, in the determination of which the author apparently followed to a great extent the works of Batsch and Schaeffer.
428. — Catalogus Plantarum Americae Septentrionalis, huc usque cognitarum indigenarum et cieurum; or a catalogue of the hitherto known native and naturalized plants of North America, arranged according to the sexual system of Linnaeus. 8°. pp. 112. Lancaster, Pa. 1813. 2d edition, 1818.
A bare list, pp. 103-106, of 201 fungi, belonging to 52 genera, arranged according to Persoon's Synopsis. Authorities not quoted. The 2d edition has 1 *Xyloma*, 8 *Tremellae*, and 23 *Charariae* in addition to the above. The preface of 1st edition states that the Catalogue was written in 1809, printing begun in Nov. 1812, and finished in July, 1813, and that nearly all the cryptogams were collected in Pennsylvania. In the preparation of the 2d edition the author was apparently aided by Schweinitz. For brief references to fungi collected by Muhlenberg, see FRIES, E., KUNZE, G., and SPRENGEL, C. See no. 618.
- Murray, Dennis.** See SPRAGUE, C. J.
- Naturalist.** See AMERICAN.
- Nees von Esenbeck, Christian Gottfried.** Reichenberg, near Erbach, 14 Feb. 1776. †Breslau, 16 March, 1858.
429. Das system der pilze und schwämme. Ein versuch. 4°. pp. 334. Pl. 44. Fig. 366. Würzburg. 1816.
Includes figures taken from Bosc's Mémoire. Copies of this work usually have 334 pages, the index being paged incorrectly, and the date of issue being 1816 and 1817 on different title-pages. Some copies have additional pages, numbered 1-86, containing descriptions of the figures. The title states that there are 46 plates, but there are only 44 plates, with 366 figures, besides an illuminated title-page and a few charts. Not to be confounded with next title.
- Nees von Esenbeck, Theodor Friedrich Ludwig.** Reichenberg, 29 July, 1787. †Hyères, 12 Dec. 1837.
- And **Henry, A., and Bail, Th.**
430. Das system der pilze. Durch beschreibungen und abbildungen erläutert. 8°. Part 1. pp. vi. 74. Pl. 1-12. Bonn. 1837. — Part 2. pp. iv. 110. Pl. 13-38. Bonn. 1838.
Descriptions of genera of fungi, with illustrations taken from various sources, including Bosc's Mémoire and Schweinitz's Syn. Fung. Car. The first part by Nees and Henry; the second by Nees, Henry, and Bail.
- Nuttall, Thomas.** Settle, Yorkshire, England, 1786. †Preston, Lancashire, England, 10 Sept. 1859.
431. Collections towards a flora of the Territory of Arkansas. *Trans. Am. Phil. Soc. Philadelphia*, V. new ser. 139-203. 1837. Read 4 April, 1834.
Has on p. 139 names of 3 species of *Fuligo* and 3 species of *Trichia* from Arkansas.
- Olney, Stephen Thayer.** Burrillville, R. I., 15 Feb. 1812. †Providence, 27 July, 1878.
432. Rhode Island plants, or additions and emendations to the catalogue of plants published by the Providence Franklin Society in March, 1845. *Proc. Franklin Soc. Providence*, I. 1-24. April, 1846.
Mentions *Rhizomorpha fragilis*, var. *compressa*, on p. 24.
- Palmer, Julius Auboineau.** Boston, 1 March, 1840.
433. Toadstool-eating. *Pop. Sci. Month.* XI. 93-100. May, 1877.
Popular article without botanical interest.
- 433^a. — Empoisonnement par les champignons. *Moniteur Scientifique*, IX. 3 ser. 99-102. Feb. 1879.
General account of the action of poisonous fungi, especially *Amanitae*.
- For papers by this author on the toxicological action of fungi, see the following: "Poisonous Mushrooms," *Medical and Surgical Journal*, Boston, 6 Nov. 1879, and 20 Sept. 1883; "Toadstool poisoning," l. c. 28 Aug. 1879; "Mushroom or Toadstool Poisoning," *Medical and Surgical Reporter*, Philadelphia, 20 Sept. 1879; also article on "Mushrooms and Toadstools" in the *Annual Cyclopaedia*, D. Appleton & Co., New York. 1886.
434. — Mushrooms of America, edible and poisonous. Boston. 1885.
A series of charts, issued also in smaller form, of which there have already appeared twelve colored plates, representing 29 species, with 4 pages of general directions. With each plate is a short description of the species and directions for cooking. Rev. in *Jour. Myc.* I. 107, and *Science*, VI. 277.
- Pammel, Louis Herman.** La Crosse, Wis., 19 April, 1862.
- 434^a. Apple scab and leaf blight. *Prairie Farmer*. 14 Nov. 1885.
- 434^b. — Smut on Timothy-grass. *Prairie Farmer*. 31 July, 1886.
Summary of paper by Trelease, no. 609, with figures.
- Parker, E. H.**
435. Fungus-eating. *Proc. Soc. Nat. Sci. Poughkeepsie*, I. 70-84. 1 Nov. 1875.
General notes on the subject, followed by a list of 47 edible species found near Poughkeepsie.
- Parker, George Howard.** Philadelphia, 23 Dec. 1864.
436. On the morphology of *Ravenelia glandulaeformis*. *Proc. Am. Acad. Arts and Sci.* Boston, XXII. 205-219. Pl. 1, 2. Sept. 1886.
Account of the formation of the spores in this species, with notes on the spores of several other species of the genus, including notice of *R. Indica* on *Acacia* from Mexico.

Parry, Charles Christopher. Gloucestershire, England, 28 August, 1823.

437. Botanical Observations in Western Wyoming, with notices of rare plants and descriptions of new species collected on the route of the North-western Wyoming Expedition under Capt. W. A. Jones. 8°. pp. 25. Salem, Mass. 1874. Extr. *Am. Nat.* VIII. 9-14, 102-108, 175-180, 211-215. 1874.

Has on the last page descriptions of *Aecidium Psoraleae* and *Aec. Parryi*, by C. H. Peck.

Peck, Charles Horton. Sandlake, Rensselaer Co., N. Y., 30 March, 1833. See COOKE, M. C. See CRAGIN, F. W. See DAY, D. F. See HAYDEN, F. V. See PARRY, C. C. See PORTER, T. C. See TUCKERMAN, E.

N. B. The reports of the botanist here given form parts of general reports made to the Regents by the Curator of the State Museum. The report for each year is transmitted to the Legislature and afterwards published. The reports of the botanist include plants of all orders, although the greater portion relates to fungi. With exceptions noted below, the reports are all arranged on the following plan: An introduction, giving statistics of species mentioned, followed by general remarks not quoted here, except in cases where fungi are specially noted; a list of species of which specimens have been mounted, not quoted here; a list of plants collected, pages where fungi are named given here; a list of specimens obtained by contribution and exchange, not given here; a list of species growing spontaneously in the State, and not previously reported, with localities, habitats, and descriptions of new species, fungi given here; new stations of rare plants, remarkable varieties and observations, not given here, except in a few cases of special interest; followed in some reports by special reports, synopses of difficult genera, etc., given here. The separate copies of the reports distributed by the botanist have the original paging.

438. — Twenty-second annual report of the Regents of the University of the State of New York, on the condition of the State Cabinet of Natural History and the historical and antiquarian collection annexed thereto. Albany. 1869. D. Report of the Botanist. pp. 25-106.

Fungi collected, pp. 39, 40; not before reported, pp. 76-101; 173 species; and list of 33 edible fungi, p. 51. This report for 1868 was issued in 1869.

439. — Twenty-third Report ditto for 1869, issued 1872. pp. 27-135. Pl. 1-6.

Fungi collected, pp. 39-42; fungi on summit of Mt. Marcy, 2 species, p. 44; list of 15 edible fungi, p. 49; not before reported, pp. 52-65; 67 new species. Synopsis of New York *Agaricini*, pp. 66-127. Synopsis of New York *Boleti*, pp. 127-133. Descriptions of new *Agarici* of this report repeated in *Grevillea*, I. 2-4, 17-19; and *Hedwigia*, XI. 148-151. List of edible fungi given in *Grevillea*, I. 15.

440. — Twenty-fourth Report ditto for 1870, issued 1872. pp. 41-108. Pl. 1-4.

Fungi collected, pp. 49-52; edible fungi, 12 species, p. 52; not before reported, pp. 59-100; 90 new species, 2 new genera. Key to New York *Clavariaceae* and *Aecidia*, pp. 104-107. Host-list of *Aecidia*, p. 108.

441. — Twenty-fifth Report ditto for 1871, issued Sept. 1873. pp. 57-123. Pl. 1, 2.

Fungi collected, pp. 63-65; not before reported, pp. 72-106; 93 new species, one new genus. Synopsis of New York *Pucciniae*, pp. 110-123; spores figured on pl. 2.

442. — Twenty-sixth Report ditto for 1872, issued April, 1874. pp. 35-91.

Fungi collected, pp. 43-45; not before reported, pp. 49-87; 111 new species which had appeared previously in "Descriptions of new species of fungi" in *Bull. Soc. Nat. Sci. Buffalo*, I. 41-72. See no. 438.

443. — Twenty-seventh Report ditto for 1873, issued 1875. pp. 73-116. Pl. 1, 2.

Introduction has notes on the edible qualities of *Agaricus nactus* and *Coprinus micaceus*, on diseases of spruces, *Peridermium decolorans*, *Uredo luminata*, and directions for collecting fungi. Fungi collected, pp. 83-85; not before reported, pp. 92-111; 45 new species; key to New York *Ustilaginae*, p. 115.

444. — Twenty-eighth Report ditto for 1874, issued 1876. pp. 31-88. Pl. 1, 2.

Fungi collected, pp. 40-42; not before reported, pp. 48-82; 83 new species, 1 new genus.

445. — Twenty-ninth Report ditto for 1875, issued 1878. pp. 29-82. Pl. 1, 2.

Fungi collected, pp. 34, 35; not before reported, pp. 38-63, 78 new species. Also, pp. 63-65, descriptions of 12 species previously reported without descriptions; pp. 66-71 notes on 19 other species, one described as new; and pp. 71-82, list of parasitic fungi of New York and their hosts, including *Uredineae*, *Contomyceles*, *Perisporiaceae*, etc. Rev. in *Bot. Gaz.* IV. 125, 126, under title "Fungoid friends and foes"; and *Rev. Myc.* I. 92, 93.

446. — Thirtieth Report ditto for 1876, issued Sept. 1878. pp. 23-78. Pl. 1, 2.

Fungi collected, pp. 28, 29; not before reported, pp. 37-67, 82 new species; remarks and observations, pp. 70-77, including synonymy of species of *Lenzites* and supplement to list of parasitic fungi in 29th Report. See *Rev. Myc.* I. 92-93.

447. — Thirty-first Report ditto for 1877, issued 1879. pp. 19-60.

Introduction has notes on a fungus attacking *Cicada septendecim*, *Sphaeropsis Malorum* on apples, and several fungi on *Abies balsamea*. Fungi collected, pp. 26, 27; not before reported, pp. 31-51; 66 new species, new genera *Milleria* and *Massospora*; observations on fungi, pp. 54-60 including list of New York *Myrmomyceles*, arranged according to Rostafinski, and keys to *Helvellae* and *Xylariaceae* of New York. Rev. in *Torr. Bull.* VI. 363, and *Rev. Myc.* II. 48, 49.

448. — Thirty-second Report ditto for 1878.

This report was transmitted to the Legislature, but was never published except as a public document. A small number of copies, however, were printed in 1886, but without the plates which accompanied the report. The copies, which are very rare, have pp. 17-72, with descriptions of 80 new species, 23 *Agaricini*, 16 *Discomycetes*, 9 *Pyrenomyceles*, and 32 others, keys to New York species of *Parasiti*, *Craterelli*, and the *Deputes* tribe of *Lactarii* (see 38th Report), and an account of New York species of *Lycoperdon*, and a description of a new genus, *Glomerularia*. Most of these have since been published in other places.

449. — Thirty-third Report ditto for 1879, issued Oct. 1883. pp. 11-49. Pl. 1, 2.

Fungi collected, pp. 14, 15; not before reported, pp. 18-34; 70 new species, one new genus; synopsis of New York *Amanitaceae*, pp. 38-49. Rev. in *Rev. Myc.* VI. 58, 59.

450. — Thirty-fourth Report ditto for 1880, issued Oct. 1883. pp. 24-58. Pl. 1-4.

Introduction has a popular account of fungi on maize, *Ramularia Fragariae*, *Mucor inaequalis*, *Fusicladium dendriticum*, *Oidium fructigenum*, *Sphaeropsis Malorum*, etc. Fungi collected, pp. 39, 40; not before reported, pp. 42-53; 39 new species, critical notes on fungi, pp. 57, 58. Rev. in *Rev. Myc.* VI. 59.

451. — Thirty-fifth Report ditto for 1881, issued 1885. pp. 125-164.

Fungi collected, p. 129; not before reported, pp. 131-145; 41 new species, 2 by C. C. Frost, one new genus; synopsis of New York *Lepiotaceae*, pp. 150-164. Rev. in *Rev. Myc.* VII. 254.

452. — Thirty-sixth Report ditto for 1882, issued 1885. pp. 29-49.

Synopsis of New York *Psalliota*, 41-49. See *Rev. Myc.* VII. 254.

453. — Thirty-seventh Report ditto for 1883.

This report was transmitted to the Legislature, but never published. pp. 63-68 were struck off, but the body of the report is nowhere in print. According to the table of contents, p. 63, the report contained a monograph of New York *Paxilli*, *Cantharelli*, and *Craterelli*, and an arrangement of New York *Pyrenomyceles* on Saccardo's system.

454. — Thirty-eighth Report ditto for 1884, issued 1885. pp. 77-138. Pl. 1-3.

Fungi not before reported, pp. 83-106; 62 new species, one new genus; synopsis of New York *Lactarii*, pp. 111-133; synopsis New York *Plutei*, pp. 133-138. Rev. in *Rev. Myc.* VIII. 120.

455. — Fungi. *Trans. Albany Inst.* VI. 209-226. 1870. Read 15 Feb. 1870.

General notice of fungi, their uses and the harm done by them, with an account of some American works on fungi and brief notes on the black knot.

Peck, Charles Horton.

456. Report of the second class in the second department. Botany. *Trans. Albany Inst.* VII. 35-43, 186-204. 1872. Read 17 Jan. 1871, and 6 Feb. 1872. — VIII. 152-166. 1876. Read 18 March, 1873.

Notices of recent works on botany. Second part has also an account of *Arceuthobium pusillum* and an extended account of the black knot, *Sphaeria morbosae*. See *Jour. Quekett Micros. Club*, III. 82. Third part has also notes on *Exobasidium* and other fungi from New York.

457. — Synopsis of New York *Uncinulac.* *Trans. Albany Inst.* VII. 213-217 (1-7), with plate. 1872. Read 20 Feb. 1872.

Descriptions of 7 species, 5 new, one by Gerard, with a note on 2 species of E. C. Howe. Rev. in *Grev.* I. 62.

458. — Descriptions of new species of fungi. *Bull. Soc. Nat. Sci. Buffalo*, I. 41-72. July, 1873.

Characters of 96 *Hymenomyces*, 11 *Gasteromyces* and *Mycomycetes*, 18 *Coniomycetes*, 6 *Hyphomyces*, and 11 *Ascomycetes*. Also in 26th Report. See above.

459. — Fern Fungus. *Torr. Bull.* IV. 41. Sept. 1873.

Note on *Dothidea Pteridis*.

460. — Two new fungi from New Jersey. *Torr. Bull.* V. 2, 3. Jan. 1874.

Description of *Protomyces Martindalei* and *Roestelia transformans*.

461. — New fungi from New Jersey. *Torr. Bull.* VI. 13, 14. Feb. 1875.

Description of 4 species collected by J. B. Ellis.

462. — The Black Spruce. *Trans. Albany Inst.* VIII. 283-301. 1876. Read 4 May, 1875.

Includes observations on *Peridermium decolorans* on *Abies nigra*.

463. — Two new fungi. *Torr. Bull.* VI. 77. Feb. 1876.

Description of *Lycoperdon Warnei*, Illinois, and *Septoria Besseyi*, Iowa.

464. — A new fungus from Pennsylvania. *Torr. Bull.* VI. 135, 136. Feb. 1877.

Description of *Pestalozzia Steenensonii*.

465. — Colorado Fungi. *Bot. Gaz.* III. 34, 35. April, 1878.

Descriptions of 11 species collected by T. S. Brandegee.

466. — United States species of *Lycoperdon*. *Trans. Albany Inst.* IX. 285-318 (1-34). 1879. Read 4 Feb. 1879.

Full descriptions of 23 species. Rev. in *Torr. Bull.* VI. 307; *Bot. Gaz.* IV. 175; *Rev. Myc.* I. 133.

467. — New species of fungi. *Bot. Gaz.* IV. 126-128, 137-139, 169-171, 216-219, 230, 231. Feb., March, June, Oct., Nov. 1879. — V. 33-36. March, 1880. — VI. 226-228, 239-241, 274-277. June, July, Oct. 1881. — VII. 43-45, 54-57. April, May, 1882.

Descriptions of 105 species of different orders from various parts of the country, especially the Western States and Territories. See same title below.

468. — Plants of the summit of Mt. Marcy. *Adirondack Survey*. Verplanck Colvin, Supt. 7th Report. Albany. 1880. *Botany*, pp. 401-412.

List of 7 fungi on p. 405.

469. — *Polyporus volvatus*, Pk., and its varieties. *Torr. Bull.* VII. 102-105. Fig. 3. Oct. 1880.

Gives characters of the typical form and 3 varieties.

470. — Two new species of fungi. *Torr. Bull.* VIII. 49-51. Pl. 7. May, 1881.

Description and figures of *Ascomycetella quercina*, and description of *Polyporus lactifluus*. See notice in *Rev. Myc.* IV. 65, 66, with copies of figures on pl. 25.

471. — Fungi in wrong genera. *Torr. Bull.* IX. 1-4. Pl. 9. Jan. 1882.

Describes the genus *Physalacria*, founded on *Mitrella infata*, Schw., and *Secotium Warnei*.

472. — New species of fungi. *Torr. Bull.* IX. 61, 62. Pl. 24. May, 1882. — X. 73-75. Pl. 35. July, 1883. — XI. 26-28, 49, 50. March, May, 1884. — XII. 33-36. Pl. 49. April, 1885.

First part describes and figures the genera *Physarella* and *Caliciopsis*. Part 2 gives 11 species, with plate of *Boletus Morgani*. Part 3 has 9 species, with new genus, *Myriodoporus*. Part 4, 9 species, principally *Uredineae* from Utah, Washington Terr. and Ohio. Part 5, principally *Uredineae*; 11 species from Arizona and New Mexico.

473. — An imperfectly described *Phalloid*. *Torr. Bull.* IX. 123, 124. Pl. 25. Oct. 1882.

Notes on the structure of *Phallus Ravenelii*, B. and C.

474. — A new Fern Rust. *Torr. Bull.* X. 62. June, 1883.

Description of *Caecoma Cheilanthis* from Arizona.

475. — A new genus of *Sphaeriaceae* Fungi. *Torr. Bull.* X. 127, 128. Dec. 1883.

Describes the genus *Neopeckia* of Saccardo, and gives details of *N. Coulteri*.

476. — Edible Puff-balls. *Country Gentleman*. 1885. p. 901. Albany.

Notes on the edible properties of puff-balls, especially *Lycoperdon giganteum*, *L. cyathiforme*, and *L. caelatum*.

477. — The smooth Agaric (*Ag. naucinoides*, Pk.). *Country Gentleman*. 1886. p. 833. Albany.

Account of edible properties of *Ag. naucinoides*, and comparison of that species with *Ag. phalloides*, with figures of both.

N. B. Besides the above, there is a considerable number of notes on fungi by this author in the *Country Gentleman*, mostly answers to correspondents about species sent for determination.

Penhallow, David Pearce. Kittery Point, Me., 25 May, 1854.

478. Yellows in peach trees. *Trans. Mass. Hort. Soc.* 1882, 124-130. Fig. 6. Boston. 1882.

Includes on pp. 129, 130, notes on fungi found in diseased trees, *Bispora moniliformis*, *Pleospora herbarum*, *Macrosporium sarcinula*, and *Ascomyces deformans*.

479. — Peach yellows. *Rept. Houghton Farm Experiment Station*, 3 ser. no. 2, pp. 25-42, Pl. 4, 1882. New York (1883).

An account of the disease, including some notes on fungi, pp. 34-35, none of which is considered by the author to be the true cause of the disease. The subject is continued in an appendix, l. c. ser. 3, no. 3, pp. 53-64, 1883, which, however, does not include notes on fungi.

480. — Diseases of plants. *Pop. Sci. Month.* XXV. 385-396. July, 1884.

Refers incidentally to the action of fungi in disease.

481. — Plants in their relation to disease. *Rept. Kansas State Hort. Soc. for 1884*, XIV. 125-133. Topeka. 1885. Also in *Trans. Am. Hort. Soc.* III. 167.

Subject treated mainly from a chemical standpoint, without reference to special fungi.

N. B. The following papers by this author do not include specific notices of fungi, but relate to histological and physiological matters: "Notes on some of the structural and physiological peculiarities incident to the diseases of fruits." *Proc. Am. Ass. Adv. Sci.* XXXI. 519-521. "Peach yellows." *Country Gentleman*, XLVIII. 700. 30 August, 1883.

Persoon, Christian Hendrik. Capetown, 1755. †Paris, 17 Feb. 1837. See DESVAUX, N. A.

482. Mémoire sur les Vesse-loups ou *Lycoperdon*. *Desvaux's Journal de Botanique*, II. 1-31. Pl. 1, 2. Paris. 1809.

Scleroderma calostoma (*Mitromyces cinnabarinus*) described and figured.

Persoon, Christian Hendrik.

483. Observations de M. Persoon et création du nouveau genre *Gyrocephalus*. *Mém. Soc. Linn. Paris*, III. 75-78. 1825.

The *Tremella stipitata* of Bosc referred to *G. Carolinensis*, P.

The "Synopsis methodica fungorum" of this author forms the basis of classification of the earlier American catalogues of fungi, as those of Muhlenberg and Torrey, but the work itself has no special American references.

Phillips, William. Presteign, Radnorshire, Wales, 4 May, 1822.

484. *Discomycetes* from California. *Grev.* V. 35, 36. Sept. 1876.

Names and habitats of 22 species collected by H. W. Harkness.

485. — Fungi of California and the Sierra Nevada Mountains. *Grev.* V. 113-118. Pl. 87-89. March, 1877.

Notices of 66 species collected by H. W. Harkness and J. P. Moore, 14 described as new. See *Rev. Myc.* I. 23.

486. — Fungi of California. *Grev.* VII. 20-23. Sept. 1878.

Notices of 50 species collected by H. W. Harkness and J. P. Moore, 10 *Discomycetes* described as new.

487. — On a new species of *Helvella*. *Trans. Linn. Soc.* I. 2 ser. 423. Pl. 48. 1880. Read 5 June, 1879.

Description and plate of *Helvella Californica*. Reprint not paged. See also *Jour. Bot.* 2 ser. VIII. 287.

488. — A revision of the genus *Vibrissia*. *Trans. Linn. Soc.* II. 2 ser. 1-10. Pl. 1, 2. Read 20 Jan. 1881. Issued Dec. 1881.

Includes descriptions of 3 American species, 1 new, *V. turbinata*, with 2 figures. Species given in *Hedwigia*, XXII. 23.

— and Harkness, H. W.

489. Fungi of California. *Bull. Cal. Acad. Sci.* I. 21-25 (1-5). Feb. 1884.

Descriptions of 20 new species and 1 new variety of *Discomycetes* collected in 1882.

490. — *Discomycetes* of California. *Grev.* XIII. 22, 23. Sept. 1884.

Descriptions of 10 new species from California, and *Phacidium nigrum*, Cooke, from Georgia.

Phippen, George Dean. Salem, Mass., 13 April, 1815.

491. Report on the onion disease. *Proc. Essex Inst.* Salem, Mass. II. 211-215. 1862. Read 10 July, 1857.

Includes notes on a disease apparently caused by *Urocystis Cepulae*.

Pirotta, Romualdo. Pavia, 7 Feb. 1853.

492. I funghi parassiti dei vitigni. 8°. pp. 96. Pl. 4. Milan. 1877. Extr. *Arch. Trienn. Lab. Bot. Critt. Pavia*, II. 129-225. Pl. 10-13. Milan. 1879.

An account, with full descriptions, of all fungi which attack species of *Vitis*, including 37 species of the United States. Rev. in *Grevillea*, VI. 147-150. See no. 133.

Planchon, J. E.

492^a. Les vignes Américaines, leur culture, leur résistance au *Phylloxera* et leur avenir en Europe. 8°. pp. 240. Montpellier and Paris. 1875.

Has on p. 20 brief reference to *Peronospora viticola*; on p. 24 to *Erysiphe mors-uvae* and *E. necatrix*; and on p. 54 a notice of grape-rot.

Plowright, Charles Bagge. King's Lynn, England, 3 April, 1849.

493. Some remarks upon *Sphaeria* (*Gibbera*) *morboza*, Schw. *Month. Micros. Jour.* XIII. 209, 210. London. May, 1875.

Notes on the conidia and ascospores of this species, with review of papers on the black knot by C. H. Peck and Thomas Taylor.

494. — Californian Fungi. *Grev.* V. 74. Dec. 1876.

Notices of 24 species collected by H. W. Harkness, two described as new.

495. — Californian *Sphaeriae*. *Grev.* VII. 71-74. Dec. 1878.

Notices of 39 species of *Pyrenomycetes* collected by H. W. Harkness and J. P. Moore, 10 described as new. For emendations of this paper, see *Grev.* VIII. 73.

— and Harkness, H. W.

496. New species of Californian fungi. *Bull. Cal. Acad. Sci.* I. 26 (6). Feb. 1884.

Description of 2 new *Nectriae*.

Plukenet, Leonard. 1642. †London. 1706.

497. *Phytographia sive stirpium illustriorum et minus cognitarum icones, tabulis aeneis summa diligentia elaboratae; quarum unaquaeque titulis descriptoriis ex notis suis propriis et characteristicis desumptis insignita; ab aliis ejusdem sortis facile discriminatur.* 4°. London. Part 1, preface, pl. 1-72, 1691. Part 2, pl. 73-113; appendix, pl. 114-117; appendix altera, pl. 118-120, 1691. Part 3, pl. 121-239; appendix, pl. 240-250, 1692. Part 4, pl. 251-328, 1696.

A collection of uncolored figures, with brief Latin descriptions at the foot of each plate. See next title.

498. — *Almagestum botanicum sive Phytographiae Plukenetianae onomasticon methodo synthetica digestum, exhibens stirpium exoticarum, rariorum, novarumque nomina, quae descriptionis locum supplere possunt.* 4°. pp. 402. London. 1696.

Descriptions of plants, including those figured in the *Phytographia*, alphabetically arranged. In the *Phytographia*, pl. 116, fig. 7, and pl. 184, figs. 4-10, represent fungi from Virginia, and the descriptions are also given in the *Almagestum*, pp. 162-164. Pl. 116, fig. 7, is evidently a *Pilobolus*. Pl. 184, fig. 4, may be a *Calocera*. Fig. 5 is apparently *Mitremyces*; fig. 6, perhaps *Cynophallus caninus*; fig. 7 is unrecognizable; fig. 8, apparently *Lycoperdon cyathiforme*; fig. 9 is a *Cyathus*, and fig. 10 probably *Hericium Hystrix*.

Porcher, Francis Peyre. St. John's, Berkley, S. C., 14 Dec. 1825.

499. On the medicinal and toxicological properties of the cryptogamic plants of the United States. *Trans. Am. Med. Ass.* VII. 167-284. 8°. 1854.

Contains on pp. 211-284 a general account of the properties of fungi, followed by a list of species, with their properties, compiled from various sources.

500. — The medicinal, poisonous, and dietetic properties of the cryptogamic plants of the United States. 8°. pp. 126. New York. 1854.

Reprint of last paper, with index.

501. — Resources of the Southern fields and forests, medical, economical, and agricultural. Being also a medical botany of the Confederate States; with practical information on the useful properties of the trees, plants, and shrubs. 8°. pp. 601. Charleston, 1863.

An account of the edible mushroom and its culture, and notes on tuckahoe given on pp. 594-599.

502. — A reference handbook of the medical sciences, embracing the entire range of scientific and practical medicine and allied science. 4°. New York. Wm. Wood & Co.

In the 3d volume of this work, 1886, is an article, by F. P. Porcher, on "Fungi edible and poisonous," pp. 264-284, figs. 1355-1376, pl. 12, 13. A general treatise on edible and poisonous species, with illustrations taken from different sources, especially Payer and Valmy, followed by a descriptive list of species found in the United States, including a letter from H. W. Ravenel, 266-267, and numerous extracts from an unpublished paper of M. A. Curtis on edible fungi. Plate 12 has 15 colored figures of edible species, by C. I. Curtis, not previously published; and pl. 13, 6 figures of poisonous species taken from Cordier and J. A. Palmer. At the end of the article is a list of edible or useful species taken from Curtis's Catalogue Plants North Carolina, q. v.

Porter, Thomas Conrad. Alexandria, Huntingdon Co., Penn., 22 Jan. 1822.

— and **Coulter, J. M.**

503. Synopsis of the flora of Colorado. *Misc. Publ. no. 4, Dept. Interior, U. S. Geol. and Geog. Survey of the Territories.* F. V. Hayden, U. S. Geologist, in charge. 8°. pp. 180. Washington, 1874.

On pp. 163, 164, is an account of 8 fungi by C. H. Peck, two of them described as new.

Prentiss, Albert Nelson. Cazenovia, N. Y., 22 May, 1836.

503^a. Puff-balls and their kindred. *Cornell Era*, IV. 179–181. 8 Dec. 1871.

A popular account of fungi, with description of a large specimen of *Lycooperdon giganteum*.

503^b. — Destruction of obnoxious insects by means of fungoid growths. *Am. Nat.* XIV. 575–581, 630–635. Aug., Sept. 1880.

Report on a number of experiments with regard to the action of yeast in destroying insects, from which the author concludes that yeast has very little value as a means for destroying insects. Substance of this paper also given in *Am. Entomol. and Bot.* III. 269.

Prillieux, Edouard Ernest. Paris, 11 Jan. 1829.

504. Quelques mots sur le rot des vignes Américaines et l'antracnose des vignes françaises. *Bull. Soc. Bot. France*, XXVII. 34–38. 13 Feb. 1880.

Includes notes on *Phoma uvicola*, considered by the author to be distinct from the fungus of antracnose. The paper is followed by remarks of Dr. M. Cornu, whose views are different from those of the author.

505. — Cause du rot des raisins en Amérique. *Comptes rendus*, XCV. 605. 2 Oct. 1882.

Notes on *Peronospora viticola* in America, and on the trouble caused by a species of *Phoma*.

Provancher, L. (Abbé). See THUEMEN, F. von.

Rabenhorst, (Gottlieb) Ludwig. Treuenbrietzen, 22 March, 1806. †Meissen, 24 April, 1881. See HEDWIGIA. See EXSICCATI in supplement. See WINTER, G.

Rafinesque-Schmaltz, Constantin Samuel Galata, near Constantinople, 22 Oct. 1783. †Phila. delphia, 1840. See GERARD, W. R.

506. Précis des découvertes et travaux somnologiques de Mr. C. S. Rafinesque-Schmaltz entre 1800 et 1814, ou choix raisonné de ses principales découvertes en zoologie et en botanique pour servir d'introduction à ses ouvrages futurs. 12°. pp. 65. Palermo. 1814.

On pp. 49–52 are descriptions of 18 species of fungi and five new genera from the United States, principally Delaware and New Jersey.

507. — Florula Ludoviciana; or, a flora of the State of Louisiana. Translated, revised, and improved from the French of C. C. Robin, by C. S. Rafinesque. 8°. pp. 178. New York. 1817.

On p. 12 is a notice of 7 fungi taken ostensibly from work of C. C. Robin, see no. 532, one of them called a new species, *Morchella odorata*.

508. — Prodrome des nouveaux genres de plantes observés en 1817 et 1818 dans l'intérieur des Etats-Unis d'Amérique. *Isis*, 1820, part 1, 236–244.

Has on p. 243 descriptions of three new genera of fungi, *Rimella*, *Endoconia*, and *Gemmutaria*, from the United States.

509. — Medical Flora, or manual of the medical botany of the United States of North America, containing a selection of above 100 figures and descriptions of medical plants, with their names, qualities, properties, history, etc., and notes or remarks on nearly 500 equivalent

substitutes. 8°. Philadelphia. Vol. I. pp. 268 pl. 52. 1828. — Vol. II. pp. 276, pl. 48. 1830.

In volume II. references to *Agaricus*, *Amanita*, *Boletus*, etc., of no value.

Rau, Eugene Abraham. Bethlehem, Pa., 22 July, 1848.

510. A new *Phallus*. *Bot. Gaz.* VIII. 223, 224. Pl. 4. May, 1883.

Account of a species found at Bethlehem, Pa., with a description in Latin of *Phallus togatus* by Kalchbrenner. See nos. 280 and 375.

Ravaz, L. See VIALA, P.

Ravenel, Henry William. St. John's Parish, Berkley Co., S. C., 19 May, 1814. See BERKELEY, M. J. See COOKE, M. C. See PORCHER, F. P. See THUEMEN VON F. See EXSICCATI in supplement.

511. — Contributions to the cryptogamic botany of South Carolina. *Med. Jour. and Rev. Charleston*, IV. 428–433. July, 1849. — V. 324–327. May, 1850. — VI. 190–199. March, 1851.

Part 1 has mosses and hepatics, part 2 lichens, and part 3 fungi. A list of 169 *Hymenomycetes*, with habitats and notes in some cases on edible qualities. In a foot-note is an account of the fairy rings of *Agaricus Achimenes*, B. and C.

512. — Report on the fungi of Texas. *Rept. Commissioner Agr. on diseases of Cattle in United States*. 4°. pp. 171–174. Washington. 1871.

General account of fungi collected in Texas, with statistics of fungi of that region.

513. — A list of the more common native and naturalized plants of South Carolina. In *South Carolina. Resources and Population, Institutions and Industries.* Published by the State Board of Agriculture of South Carolina. 8°. pp. 312–359. Charleston. 1883.

On pp. 353–356 is a list of 35 species of fungi, of which the popular and scientific names are given, but no descriptions.

N. B. A paper on "Edible Mushrooms of this country" was read by this author before the Aiken Vine-Growing and Hort. Ass. about the year 1862–3, and was printed in the newspapers of Charleston. The paper gave a popular account of the mode of identifying common edible mushrooms, *Agaricus campestris*, *A. amygdalinus*, and some others.

Ray, John. Black Notley, Eng., 29 Nov. 1628. †17 Jan. 1705.

513^a. *Historia Plantarum*, etc. f°. Vol. I.–III. London. 1686–1704.

Title here given in an abbreviated form. The only references to United States fungi in this work are the species collected by J. Banister in Virginia in 1680, which were previously described and figured by Plukenet, & v. The *Pilobolus* mentioned in title 498 is first given by Ray in vol. II. 1926, and is the only fungus in the list of species collected by Banister. The other fungi of Banister are in the third volume of Ray, pp. 20, 25.

Rees, Max.

514. Die rostpilzformen der deutschen Coniferen zusammengestellt und beschrieben von Dr. Max Rees. 4°. pp. 70. Pl. 2. Halle. 1869. Extr. *Abhandl. Naturf. Gesells. Halle*, XI. 49–118. Pl. 1, 2. 1870.

Has a note on *Gymnosporangium macropus*.

Rehm, Heinrich. Ederheim near Nördlingen, Bavaria, 20 Oct. 1828. See EXSICCATI in supplement

515. Note on *Peziza calycina*, Schum. *Grev.* IV. 169. June, 1876.

Includes a description of a new species, *Peziza Ellisiana*, sent from New Jersey by J. B. Ellis. See no. 118.

516. — Bemerkungen über (einige) *Ascomyceten*. *Hedwigia*, XVIII. 113–115, Aug. 1879; 161–169, Nov. 1879. — XXI. 130–139, Sept. 1882; 145–148, Oct. 1882.

Part 1 has no American references. Part 2, p. 168, has a note on *Didymosphaeria grumata* from New Jersey. Part 3 has notes on 19 American species, most of them from Ellis's North American Fungi. Part 4, p. 146, has a note on *Val-saria cincta*, also from Ellis.

Rehm, Heinrich.

517. Revision der *Hysterineen* im herb. Duby. *Hedwigia*, XXV. 137-155, 173-202 (1-48). Aug.—Oct. 1886.

Includes notes on North American *Hysteriaceae* with a review of species described in work here numbered 201.

518. — *Ascomyceten*. In getrockneten exemplaren herausgegeben von Dr. Med. Rehm. Fasc. 1-11. 26th *Bericht Naturhistor. Vereins*, Augsburg. 1881. pp. 1-132.

This number of the *Berichte* gives diagnoses of new species and critical notes on others found in the first eleven fasciuli of the collection of dried *Ascomycetes* issued by the author. For an account of this collection and list of American species which it contains, see SUPPLEMENT. Descriptions of new species of first 11 fasciuli are repeated in *Hedwigia*, XXI. 35-43 and 55-64. Notes on species in later fasciuli are given in *Hedwigia* as follows: Fasc. 12, vol. XX. 33-42, 49-54; — fasc. 13, XXI. 65-75, 81-86; — fasc. 14, XXII. 33-41, 52-61; — fasc. 15, XXIII. 49-57, 69-77; — fasc. 16, XXIV. 7-17, 66-72; — fasc. 17, XXIV. 225-246.

519. *Revue Mycologique*, recueil trimestriel illustré consacré à l'étude des champignons. 8°. Vol. I.-VIII. Jan. 1879—Jan. 1887. To be continued. Toulouse. Edited by C. Roumeguère.

Includes papers on lichens as well as fungi. Papers on North American fungi given here under authors' names. Reviews by the editor. In vol. III. the numbers are pagged independently.

Rex, George A. Chestnut Hill, near Philadelphia, 28 April, 1845.

520. *Syphoctichium Casparyi*, Rostfk. *Bot. Gaz.* IX. 176. Oct. 1884.

Notes the discovery of this species in New York State.

521. — The banded-spore *Trichias*. *Jour. Myc.* II. 85-87. Aug. 1886.

Notes on the distribution of *Trichia chrysosperma*, *T. affinis*, and *T. Jackii*, and allied forms, in the United States.

Rich, C. W. L.

522. Large Fungi. *Am. Nat.* XVIII. 68-69. Jan. 1884.

Reports finding a *Hydnum septentrionale* weighing twelve pounds.

Rich, Oliver O.

523. A Synopsis of the genera of American plants according to the latest improvements of the Linnaean System. 8°. pp. 167. Georgetown, D. C. 1814.

Describes, pp. 141-144, 17 genera of fungi.

Richardson, (Sir) John. Dumfries, Scotland, 1787. †Grasmere, England, 5 June, 1865.

523^a. Botanical appendix to Capt. Franklin's narrative of a journey to the shores of the Polar Sea. 4°. pp. 40. Pl. 4. London. 1823.

On p. 35 is a list of 19 fungi.

Riley, Charles Valentine. London, England, 12 Sept. 1843.

524. The periodical *Cicada*. *Rept. State Entomologist, Missouri*, I. 18-42. Jefferson City. 1869.

On p. 28 remarks on the enemies of the *Cicada*, with note by Dr. W. D. Hartman on a greenish powdery fungus found in this *Cicada*.

525. — The white grub. *Rept. State Entomologist, Missouri*, I. 156-159. Fig. 88-89. Jefferson City. 1869.

On p. 153, fig. 89, are notes and a figure of a *Cordyceps* on the larva of the May-beetle.

526. — Fungus on wild plums. *Am. Entom. and Bot.* II. 308. Fig. 190. Sept. 1870.

Figure of a distortion of shoots of *Prunus Americana* from Mississippi, supposed to be caused by a fungus.

527. — The unadorned *Tiphia*, or white grub parasite, *Tiphia inornata*, Say. *Rept. State*

Entomologist, Missouri, VI. 123-126. Fig. 34, 35. Jefferson City. 1874.

Account of a *Cordyceps* which grows on this insect, with figure, which is also given in *Scientific American*, 25 May, 1875.

528. — The white grub fungus. *Am. Entomologist*, III. 137-140. Fig. 53-55. June, 1880.

Account and figures of *Torrubia Ravenelii*, B. and C., with summary of previous writings on the subject. See also *RURAL WORLD*, 12 June, 1875, for account of same fungus there called *T. elongata*.

529. — Reports of experiments, chiefly with kerosene, upon insects injuriously affecting the orange tree and the cotton plant, made under the direction of the Entomologist. *U. S. Dept. Agr. Division of Entomology, Bulletin No. 1*. 8°. pp. 62. Washington. 1883.

On p. 25 is a notice of a fungoid growth on *Purlatoria* and *Mytiluspis* in a report made by Joseph Voyle.

530. — Reports of observations on the Rocky Mountain locust and the chinch bug, together with extracts from the correspondence of the Division on miscellaneous insects. *U. S. Dept. Agr. Division of Entomology, Bull. 2*. 8°. pp. 36. Washington. 1883.

On p. 30, a notice of *Scorias spongiosa* on honey dew.

531. — The mildews of the grape vine. An effectual remedy for *Peronospora*. *Rural New-Yorker*, XLV. 72, 87. 30 Jan.—6 Feb. 1886.

Accounts of *Uncinula spiralis* and *Peronospora viticola* and the means of destroying them. Issued separately on a folio sheet.

Other papers by this author, in which fungi are noticed without reference to special American species, are "Wheat rust and barberry rust," *Am. Entom. and Bot.* II. 162; and "Fungus foes," I. c. III. 297.

Robin, Charles (Philippe). Jasseron, France, 4 June, 1821.

531^a. Histoire naturelle des végétaux parasites qui croissent sur l'homme et sur les animaux vivants. 8°. pp. 702. Atlas. Pl. 15. Paris. 1853.

Includes references to Schweinitz's species of *Isaria*, and species described by Leidy.

Robin, Claude C.

532. Voyages dans l'intérieur de la Louisiane, de la Floride Occidentale, et dans les Isles de la Martinique et de Saint-Domingue pendant les années 1802, 1803, 1804, 1805 et 1806. Suivis de la Flore Louisianaise. 8°. Vol. I.-III. Paris. 1807.

The Flore Louisianaise in vol. III. pp. 311-525, forms the basis of Rafinesque's *Flora Ludoviciana*, q. v. Some rather vague references to fungi on pp. 325-328.

Rose, Joseph Nelson. Dunlapville, Union Co., Ind., 11 Jan. 1862.

533. Mildews of Indiana. *Bot. Gaz.* XI. 60-63. March, 1886.

Enumeration of 12 species of *Perisporiaceae*, with hosts, localities, and notes.

Rostafinski, Joseph Thomas. Warsaw, 14 Aug. 1850.

533^a. Śluzowce (Mycetozoa). Monografia. 4°. pp. 432. Pl. 13. Fig. 1-242. Paris. 1875. Supplement 1. pp. 42. Fig. 243-246. 1876.

A work comprising descriptions of all known species of this order, including notes and revisions of American species. The figures of the first 12 plates are reproduced in the "Myxomycetes of Great Britain," by M. C. Cooke, London, 1877, a work which gives also translations of Rostafinski's descriptions of British species. See also title no. 124 and 447.

Roumeguère, Casimir. Toulouse, 15 Aug. 1828. See *REVUE MYCOLOGIQUE*. See *EXSICCATI* in supplement.

Russell, John Lewis. Salem, Mass., 2 Dec. 1808. †Salem, 7 June, 1873.

534. Contributions to the cryptogamic flora of Essex County. *Proc. Essex Inst.* Salem, Mass., I. 191-194. 1856.

Notes on *Dothidea* (*Asteroma*) *pomigena*, *Phragmotrichum Chaillatii*, and *Sphaeronema subtile*.

535. — The smaller fungi. *Am. Nat.* II. 561-570, fig. 2; 623-638, fig. 5. Jan., Feb. 1869.

General account of moulds, blights, etc., with figures, being a review of "Rust, Smut, Mildew, and Mould," by M. C. Cooke. See also article by this author on Mushrooms, a review of Cooke's "Plain and Easy Account of British Fungi," in *Am. Nat.* II. 292-303. Also "Potato Mould," *Am. Nat.* II. 463-466. These papers do not contain special American references, and state only general facts.

Saccardo, Pietro Andrea. Treviso, 23 April, 1845. See MICHELIA.

536. — Fungi Italici autographice delineati. 4°. Fig. 1500. With index. Padua. May, 1877—May, 1886.

Issued in 38 fasciculi, with an index of species in last fasciculus. The following are the numbers of plates representing United States species: 683, 684, 686, 687, 777, 781, 789, 792, 817, 849, 866, 932, 959, 1117, 1358, 1362, 1409, 1440.

537. — Enumeratio *Pyrenomycetum Hypocreaeae* hucusque cognitorum systemate carpologico dispositum. *Michelia*, I. 277-325. July, 1878.

Includes notes on 58 species of the United States.

538. — Conspectus generum fungorum Italiae inferiorum nempe ad *Sphaeropsideas*, *Melanconieas* et *Hyphomyceteas* pertinentium systemate sporologico dispositum. *Michelia*, II. 1-38. April, 1880.

Includes descriptions of *Pyricularia* and *Ellisiella*, new American genera.

539. — Fungorum Extra-Europaeorum pugillus. *Michelia*, II. 136-149. April, 1880.

Notes on 44 North American species, 21 described as new.

540. — Fungi Veneti novi vel critici. Series 3. *Hedwigia*, XIV. 68-76, May, 1875; and *Michelia*, I. 446-452, Nov. 1878. — Series 11. *Michelia*, II. 154-176, April, 1880.

Series 3 has note on *Massaria epileuca*, B. and C. Series 11 has a note on *Uredo Aspidiotus*, Peck.

541. — Fungi Gallici. Series 2. *Michelia*, II. 39-135, April, 1880. — Series 4, I. c. 583-648, Dec. 1882.

First part has a note on *Uromyces Euphorbiae*, C. and P., on p. 45. The second part has in addenda a description of *Granularia eurotioides* from New Jersey.

542. — Fungi aliquot Extra-Europaei. *Michelia*, II. 372-377. March, 1881.

Notices of 22 species from the United States, 6 described as new, collected mostly by J. B. Ellis in New Jersey. *Rev. in Rev. Myc.* III. April, 1881.

543. — Fungi Boreali-Americani. *Michelia*, II. 564-582. Dec. 1882.

Notes on 103 species, 53 described as new, 5 new genera from the United States, collected principally by J. B. Ellis. Most of the species ascribed to Saccardo and Ellis.

544. — Genera *Pyrenomycetum* schematice delineata a P. A. Saccardo. Illustratio adcommodata ad usum Sylloges *Pyrenomycetum* ejusdem auctoris. 8°. pp. 6. Pl. 1-14. Padua. Nov. 1883.

A series of figures illustrating the genera of the first two volumes of Saccardo's Sylloge. *Rev. in Am. Nat.* XVIII. 187.

545. — Conspectus generum *Discomycetum* hucusque cognitorum. *Bot. Centralblatt*, XVIII. 213-220, 247-256 (1-16). 1884.

Includes descriptions of North American genera. See *Am. Nat.* XVIII. 723.

546. *Miscellanea mycologica. Att. Real. Istit. Veneto.* II. (6 ser.) 435-463 (1-29). 1884.

Includes descriptions of one new genus and 3 new species from the United States, two of which are credited to Saccardo and Winter. See next number.

— and **Berlese**, A. N.

547. *Miscellanea mycologica. Att. Real. Istit. Venet.* III. (6 ser.) 711-742 (1-32). Pl. 8-11. 1885.

Includes enumeration of 19 species from the United States, 9 species and 2 genera described as new. Figures of 5 species. See also *Jour. Myc.* I. 95 and 105. See last number.

— and **Berlese**, A. N., and **Vogolino**, P.

548. *Sylloge Fungorum omnium hucusque cognitorum.* 8°. Vol. I.-IV. Padua. 1882-1886. To be continued.

Vol. I. Prefatio v.-viii. *Bibliotheca Mycologica*, ix.-xix. *Sylloge Pyrenomycetum*, pp. 768. 13 June, 1882.

Vol. II. *Sylloge Pyrenomycetum*, pp. 815; Addenda, vol. I., i.-lv.; Addenda, vol. II. lvi.-lxix; Index, species, and genera of vol. I. and II. pp. 77. 13 June, 1883.

Vol. III. *Sylloge Sphaeropsidearum et Melanconiearum*, pp. 860. 15 Dec. 1884.

Vol. IV. *Sylloge Hyphomycetum*, pp. 807. 10 April, 1886.

Addimenta ad volumina I.-IV. curantibus A. N. BERLESE et P. VOGLINO. pp. 484. 31 Dec. 1886. To be continued.

A work including descriptions of all known species of the orders named above. For reviews of American species in this work, see COOKE, M. C. Also reviews in *Am. Nat.* and *Jour. Myc.* and *Hedwigia*, XXIV. 97.

Salmon, D. E.

549. The nature, chemical composition, and action of ergot. *U. S. Dept. Agr. First Ann. Rept. Bureau Animal Industry for 1884.* pp. 195-203.

Included in a report on "Enzootics of Ergotism" is a chapter with title here given, which has a botanical account of ergot, with a plate giving the gross appearance of the fungus, and a plate, taken from Tulasne, of the microscopic structure.

Saunders, William.

550. Cultural Remarks. *Rept. U. S. Dept. Agr. for 1883.* pp. 182-196. Washington. 1883.

Has some remarks on the conditions which affect diseases of grapes.

Schlechtendal, von, Diedrich Franz Leonard. Xanten, duchy of Cleves, 27 Nov. 1794. †Halle, 12 Oct. 1866.

551. Eine neue *Phalloidee*, nebst bemerkungen über die ganze familie derselben. *Linnaea*, XXXI. 101-194. Pl. 1. 1860.

Includes observations on *Phallus duplicatus*, Bosc, and some other species which have been said by some writers to occur in the United States.

— and **Mueller**, K.

552. *Mitremyces Junghuhnii*, eine neue art, beschrieben und abgebildet von v. Schlechtendal und K. Müller. *Bot. Zeit.* II. 401-404. Pl. 3, B. 7 June, 1844.

Includes notes on *Mitremyces lutescens* of the United States.

Schmidt, Johann Carl. Bernstadt, Oberlausitz, 6 April, 1793. †Berne, 2 Dec. 1850. See KUNZE, G.

Schrenk, Joseph.

553. Notes on Tuckahoe. *Torr. Bull.* XI. 1-5. Pl. 43. Jan. 1884.

Gives histological and chemical structure of tuckahoe, with consideration of the mycelium found in this substance.

Schroeter, Julius.

554. Ueber einige amerikanische *Uredineen*. *Hedwigia*, XIV. 161-172, 177-182. Nov., Dec. 1875.

Proposes a new genus, *Uropyxis*, founded on *Puccinia Amorphae*, B. and C., and gives notes on synonymy and distribution of 35 other species.

Schulzer von Muggenburg, Stephan.

555. Berichtigung. *Hedwigia*, XXII. 43. March, 1883.

Has a note on *Secotium Warnet*, Peck, which author considers to be the same as *S. acuminatum*, Tul.

Schwaegrichen, Christian Friedrich. Leipsic, Sept, 1775. †Leipsic, 2 May, 1853. See SCHWEINITZ, L. D.

Schweinitz, de Lewis David. Bethlehem, Pa., 13 Feb. 1780. †Bethlehem, 8 Feb. 1834. See BERKELEY, M. J., and CURTIS, M. A. See CURRY, F. See DUBY, J. E. See FRIES, E. See STEVENSON, W. C.

556. — Description of a number of new American species of *Sphaeriae*. *Jour. Acad. Nat. Sci. Philadelphia*, V. 3-16. Pl. 1, 2. 15 Feb. 1825.

Describes 3 new species of *Cordyceps*, 2 of *Hypoxylon*, 2 of *Poronia*, and 9 other *Sphaeriaceae*, with figures of 11 species. This paper is repeated in substance, without figures, in *Linnaea, Literatur-Bericht für 1829*, pp. 44-48. Species also included in next paper. See also COOKE, M. C., title no. 159.

557. — Synopsis fungorum Carolinae Superioris secundum observationes Ludovici Davidis de Schweinitz. Edita a D. F. Schwaegrichen. *Schriften der Naturforschenden Gesellschaft. Leipsic*. 4^o. I. 20-131 (1-105). Pl. 1, 2. 1822.

The first paper of importance on fungi written by an American; 1873 species are enumerated, many of them described as new, and a few new genera. No index either to the original or the separate edition. See also next title. For early review of this work, see FLORA, VI. part 2, pp. 65-84, 1823.

558. — Synopsis fungorum in America Boreali media gentium. Secundum observationes Ludovici Davidis de Schweinitz. Communicated to the American Philosophical Society, Philadelphia, 15 April, 1831. 4^o. *Trans. Am. Phil. Soc. (n. s.)* IV. 141-316. Pl. 19. 1834.

A revision and extension of last-named paper, including 3093 species, principally from Pennsylvania and Carolina, many of them new, and several new genera. The index gives the species alphabetically, not including those previously given in *Fung. Car. Sup.*, without references to pages. For commentaries on this paper, see BERKELEY and CURTIS, COOKE, M. C., *Rev. XIII.* 37-40.

Scribner, Frank Lamson (changed from Franklin Pierce Lamson), Salem, Mass., 19 April, 1851.

559. Fungous diseases of plants. *Rept. U. S. Dept. Agr. for 1885*. pp. 76-87. Washington. 1886.

Includes account of corn smut, *Roestelia* on apples, grape moulds, several diseases caused by *Perisporiaceae* and *Peronosporae*, and honey-dew. Pl. 17 of this report, which accompanies the present paper, belongs to a paper by Pearson, which was printed in *Special Bulletin No. 2*, Botanical Division, issued Jan. 1887.

560. — Botanical characters of the Black Rot. *Physalospora Bidwellii*, Sacc. *Bot. Gaz.* XI. 297-302. Pl. 9. Nov. 1886.

An account of the structure and development of *Phoma uricola*, with references to *Sphaeria Bidwellii*, Ellis, and review of paper on the subject by Viala and Ravaz.

561. — Black Rot. — *Physalospora Bidwellii* (Ell.) Sacc. *Proc. Seventh Ann. Meeting Soc. Prom. Agr. Sci. Buffalo*, 1886. pp. 82-88. Columbus, O. Nov. 1886. Also *Colman's Rural World*. 30 Dec. 1886.

The substance of last-named paper, with notes on remedies and on *Gloeosporium ampelophagum*.

562. — Notes on the orange-leaf scab. *Torr. Bull.* XIII. 181-183. Oct. 1886.

Account of the disease, with a consideration of the remedies. Has a reference to *Fusarium sarcocroium*, Desm., found on the leaves. This paper was read at the Botanical Club of the Am. Ass. Adv. Sci. Buffalo, Aug. 1886, and an abstract is given in *Bot. Gaz.* XI. 246, Sept. 1886.

Seaman, William Henry. New York City, 1 Nov. 1837.

563. Edible fungi. *Field and Forest*, I. 71. Jan. 1876.

Gives a list of 27 species eaten in Washington.

N. B. The paper by this author, "Description of a new fungus on the leaves of the pear tree," *Blastema tridens*, Zabriskie, *Morthiera Mespill*, Fockel var., was read at the 25th meeting Am. Ass. Adv. Sci. Buffalo, Aug. 1876, but was not published.

563^a. — Some remarks on fungi considered as insecticides. *Am. Entomologist*, III. 40, 41. Feb. 1880.

Sedgwick, William Thompson. West Hartford, Ct., 29 Dec. 1855.

564. On fermentation. Lectures delivered to the employés of the Baltimore & Ohio R. R. 8^o. pp. 51-73. Fig. 1-10. Baltimore. 1882.

A popular lecture on the growth and action of yeasts and bacteria.

— and Duggan, J. R.

564^a. Pleomorphism in *Penicillium*. *Johns Hopkins University Circulars*, II. no. 21. p. 50. Feb. 1883.

A preliminary communication giving an account of the change in habit undergone by *Penicillium* when growing submerged in a saccharine fluid.

Seeman, Berthold. Hanover, 28 Feb. 1825. †Javali, Nicaragua, 10 Oct. 1871.

565. The botany of the voyage of H. M. S. *Herald*, under the command of Captain Henry Kellett, R.N., C.B., during the year 1845-51. Edited by Berthold Seeman. 4^o. pp. 483. Pl. 100. London. 1852-1857.

On p. 49 *Dothidea betulina*, forma *nana*, is recorded in Western Esquimaux Land.

Senex. (Pseudonym.)

565^a. Essay on smut in wheat. *Massachusetts Agricultural Repository and Journal*, V. 134-150. 1818.

General remarks of no interest except for the date when written.

Seymour, Arthur Bliss. Moline, Ill., 3 Jan. 1859.

566. *Puccinia heterospora*, B. and C. *Bot. Gaz.* VIII. 357, 358. Dec. 1883.

The *Puccinia Thwaitesii* of Winter stated to be the same as *P. heterospora*, B. and C., to which species *Uromyces pulcherrimus*, B. and C., is also referred.

566^a. — Curl leaf in peach trees. *Country Gentleman*. 25 June, 1885.

Account of *Eoascus deformans*, with figure.

567. — Distribution of *Puccinia heterospora*. *Jour. Myc.* I. 94. July, 1885.

Gives 11 additional hosts for this species from the Gray herbarium.

567^a. — The apple tree rust. *New England Homestead*. 5 June, 1886; with 4 figures.

A popular account of *Gymnosporangium macropus* and *Acididium pyratum*, Schw., with figures.

568. — A Palm disease. *Am. Florist*. 1 Sept. 1886; with 3 figures.

A popular account of *Graphiola Phoenicis*.

568^a. — Some fungus diseases of small fruits. *Rept. State Hort. Soc. Minnesota, for 1886*, XIV. 213-221 (1-8). Fig. 1-6.

Accounts of the orange rust of blackberries, with figure, taken from Burrill, *Fusisporium Rubi*, with figure, from Earle, *Septoria Ribis*, and some other diseases of raspberries and blackberries.

Seynes, de Jules. Lyons, France, 16 Jan. 1833.

569. Recherches pour servir à l'histoire naturelle des végétaux inférieurs. I. *Des Fistulines*. 4^o. pp. v. 71. Pl. 7.

Includes descriptions and figures of *F. spathulata*, B. and C., and *F. pallida*, B. and R., besides general account of *Fistulinae*.

Seynes, DE Jules.

570. On *Agaricus ascophorus*, Peck. *Grev.* III. 169, 170. June, 1875.

Description of the cystidia and basidiospores in this species, followed by some observations of Berkeley on the same species taken from *Gard. Chron.* of 17 April, 1875.

Shecut, John Louis Edward William.

571. Flora Carolinaensis; or a historical, medical, and economical display of the vegetable kingdom, according to the Linnæan or sexual system of botany. 8° pp. 579. Charleston. 1806.

The plants are arranged alphabetically, and some genera of fungi are given, with accounts of some of the species. The work appears to be a compilation of no value at the present day. The second volume was never published.

Smith, Worthington George.

572. Flora Discoana: Contributions to the phyto-geography of Greenland, within the parallels of 68° and 70° north latitude. By Dr. Robert Brown. *Trans. Bot. Soc. Edinburgh*, IX. 430-465 (1-37). 1867-68.

Has a list of 6 species, determined by W. G. Smith. Reprinted in *Arctic Manual*, part 2, p. 283.

Sommers, John. St. John's, Newfoundland, 29 March, 1843.

573. Nova Scotian fungi. *Trans. Nova Scotia Inst. Sci.* V. 188-192, 247-253, 332-333. Halifax. 1882. Read 26 Jan., 10 Dec. 1880, and Dec. 1881.

Enumeration of 144 species, all but a few *Basidiomycetes*, with hosts, localities, and notes in some cases. Some of the species determined by C. H. Peck.

Spalding, Volney Morgan. East Bloomfield, N. Y., 29 Jan. 1849.

574. *Ustilago Maydis* and related species. 12°, pp. 16, fig. 7. *Extr. Therapeutic Gazette*, V. 121-125. 15 April 1881.

Account of the development of *U. Maydis*, with notes on the germination of the spores in several other species of the order.

Spegazzini, Carlo.

575. Fungi Argentini additis nonnullis Brasiliensibus Montevideensibusque. Pugillus quartus. 8°, pp. 138, pl. 1. Buenos Ayres. *Extr. Anal. Soc. Cient. Argent.* XII. 13-30, 63-82, 97-117, 174-189, 208-227, 241-258; XIII. 11-35, 60-64. July, 1881—Feb. 1882.

In XII. 101 (41, 42), there are given in a foot-note full descriptions of some *Meliolae* of the United States. On XII. 225 (90) is a description of the new genus, *Ravenelula*, with a species on *Sabal* from Florida, *R. gainesvillensis*. On XIII. 21 (120), *Harknessia Eucalypti*, Cooke, is referred to *H. uromycoides*, Speg.

Sprague, Charles James. Boston, 16 Jan. 1823.

576. Contributions to New England mycology. *Proc. Soc. Nat. Hist.* Boston, V. 325-331. 1856. Read 5 March, 1856.—VI. 315-321. 1859. Read 6 Jan. 1858.

A list of 682 species collected in Massachusetts by Mr. Sprague and Dennis Murray, a few by M. A. Curtis and J. L. Russell, and some from Connecticut by C. Wright. The species determined by M. A. Curtis, some not described until later papers by Berkeley and Curtis.

577. — List of cryptogamous plants collected at Lake Superior by Dr. S. Kneeland. *Proc. Soc. Nat. Hist.* Boston, VI. 296. 1859. Read 28 Nov. 1857.

List of 8 species of fungi, 2 lichens, and one moss determined by C. J. Sprague.

Sprengel, Kurt (Curtius). Boldekow, near Anklam, 3 Aug. 1766. †Halle, 15 March, 1833.

578. Plantarum minus cognitarum pugillus primus. 12°. pp. 66. Halle. 1813.

On p. 66 is a description of *Solenarium byssoideum* from Pennsylvania, collected by Muhlenberg.

579. — *Systema vegetabilium (Caroli Linnaei)*. Editio decima sexta curante Curtio Sprengel. 8°. Vol. I.-V. Göttingen. 1825-1828.

Fungi are included in vol. IV. 376-580, 1827. Includes species of Schweinitz and Bosc, with descriptions of American species, some referred to new genera.

Stevenson, William Clark, Jr. Philadelphia, 7 Dec. 1848.

580. Additions to Mr. Cooke's paper on "The *Valsei* of the United States." *Proc. Acad. Nat. Sci.* Philadelphia, pp. 86-88. April, 1878.

Gives details of spores of 38 species from the Schweinitz herbarium. Supplementary to paper by M. C. Cooke. See no. 123.

Streinz, Wenceslaus Maternus.

581. Nomenclator fungorum exhibens ordine alphabetico nomina tam generica quam specifica ac synonyma a scriptoribus de scientia botanica fungis imposita. 8°. pp. viii. 735. Vienna. 1862.

A general index of genera and species of fungi, including American, and a bibliography of works on fungi.

Sturtevant, Edward Lewis. Boston, 23 Jan. 1842.

582. A list of edible fungi. *Trans. Mass. Hort. Soc.* for 1881. pp. 322-348. Boston. 1881.

An enumeration of a large number of species compiled from various sources, the American authorities being Curtis and Harkness and Moore.

Sullivan, William Starling. Franklinton, O., 15 Jan. 1803. †Columbus, O., 30 April, 1873. See LEA, T. G. See MONTAGNE, J. F. C.

Taylor, Thomas.

583. Certain fungi parasitic on plants. *Month. Micros. Jour.* London (XII. 118-125. Pl. 95-97. March, 1875).

Notes on black-knot and *Erysiphe Tuckeri* taken from *Rept. U. S. Dept. Agr.* for 1873, pp. 196-200; and *Rept.* 1874, pp. 174-177.

584. *Oidium Tuckeri*, a fungus of the grapevine. *Am. Month. Micr. Jour.* V. 5-7. Jan, 1884.

This species said to be the conidial form of *U. spiralis*. Includes quotation from letter of Berkeley in *Gard. Chron.* Rev in *Grev.* XII. 84.

585. — Edible mushrooms of the United States. *Rept. U. S. Dept. Agr.* for 1885. pp. 100-108. Pl. 2. Washington. 1886.

Account of 12 species, with colored figures.

N. B. For other papers by this author, see *Microscopic Observations in Reports U. S. Department of Agriculture* prior to 1876, as follows: 1871, pp. 110-122, pl. 4-17, "Report on fungoid diseases of plants," grape mildews, lilac mildew, diseases of pear, and peach-trees. — 1872, pp. 188-203, fig. 27-38, pear-blight, onion-smut, peach-yellows, and potato-rot. — 1873, pp. 183-210, figs. 11-21, hawthorn-blight, potato-rot (also in *Monthly Report Department of Agriculture*, June, 1874), black-knot, orange blight, and apple-rot. — 1874, pp. 161-178, pl. 1-5, cranberry-rot, black-knot (also in *Monthly Report* for Nov. and Dec.), and *Oidium Tuckeri*. — 1875, pp. 193-206, pl. 15, cranberry-rot and black-knot. — 1876, pp. 74-81, mushrooms. — Also, "Puccinia on paper," in the *Lens*, I. 170-171; "The yellows of the peach," *l. c.* II. 36-38; "Potato blight and rot," *l. c.* II. 152-157.

Thuemen, von Felix. Dresden, 1839. See EXSICCATI in supplement.

586. New species of American fungi. *Torr. Bull.* VI. 95. June, 1876.

Characters of 3 species and one variety.

587. — Contributions à la flore mycologique de la province de Québec. *Naturaliste Canadien*, X. 8-10. Jan. 1878.

Paper introduced into an article, "Nos champignons," by the Abbé Provancher. Enumeration of 25 species, one new species, *Gnomonia Provancheriana*, and one new variety described.

588. — New species of North American *Uredineae*. *Torr. Bull.* VI. 215, 216. March, 1878.

Descriptions of 6 species.

Thuemen, von Felix.

589. Fungorum Americanorum triginta species novae. *Flora, LXI. (XXXVI. new ser.)* 177-184. 21 April, 1878.

Descriptions of one new genus, *Thuemenia*, and 28 new species collected principally by H. W. Ravenel in South Carolina. One species is credited to Rehm and one to Cooke.

590. — Die pilze des weinstockes. Monographische bearbeitung der sämtlichen bisher bekannten, auf den arten der gattung *Vitis, L.*, vorkommenden pilze. 8°. pp. xx. 225. Pl. 5. Vienna. 1878.

Includes descriptions of American viticolous fungi, several species described as new. New species of this work are repeated in *Hedwigia, XVIII.* 118-124. Rev. in *Grev. VI.* 147, and *Bot. Zeit. XXXVII.* 60.

591. — *Hyphomycetes nonnulli novi Americani.* *Rev. Myc. I.* 58-61. April, 1879.

Descriptions of 13 species collected by H. W. Ravenel.

592. — *Melampsora salicina*, der weiden rost. *Hedwigia, XVIII.* 76-79. May, 1879. Extr. *Mittheil. aus dem forstl. Versuchswesen Oesterreichs. II.*

Original not seen. Seven species made of the original species, 4 of which belong to the United States. See also *Rev. Myc. I.* 136.

593. — A brief contribution to the mycological flora of the United States. *Torr. Bull. VI.* 350, 351. Oct. 1879.

Notes on 8 species, of which 2 are described as new.

594. — Fungi pomici. Monographische beschreibung der auf den obstfrüchten der gemässigten climata vorkommenden pilze. 8°. pp. xii. 143. Pl. 3. Vienna. 1879.

Includes descriptions of American species.

595. — Die blasenrost-pilze der Coniferen. Monographie der gattung *Peridermium, Lévy.* *Mittheil. aus dem forstl. Versuchswesen Oesterreichs. II.* part 3, pp. 297-323. 4°. Vienna. 1880.

Includes descriptions of and comments on American species of the genus.

596. — Two undescribed North American species of *Septoria*. *Bot. Gaz. V.* 122-123. Oct. 1880.

Characters of *S. Albaniensis* and *S. querceti*.

Torrey Botanical Club. See BULLETIN of.

Torrey, John. New York, 15 August, 1796. †New York, 10 March, 1873.

597. A catalogue of plants growing spontaneously within thirty miles of the city of New York. 8°. pp. 100. Albany. 1819.

On pp. 87-89 is a list of 92 fungi arranged according to Personou, specific authorities not given.

598. — Catalogue of North American genera of plants, arranged according to the orders of Lindley's Introduction to the natural system of botany; with the number of species belonging to each genus as far as they are at present determined. 8°. pp. 22. New York. 1831.

This was originally printed as an appendix to the American edition of Lindley's Introduction. Fungi are given on pp. 12, 13. The names of genera only given with the number of supposed species of each genus, in all 3101.

Trelease, William. Mt. Vernon, N. Y., 22 Feb. 1857.

599. Notes on the relations of two *Cecidomyiids* to fungi. *Psyche, IV.* 195-200. August, 1884.

Account of *Rhytisma Solidaginis, Schw.*, *R. bifrons, Schw.*, and *R. Asteris, Schw.*, which, author thinks, are probably primarily insect-galls.

600. — The Philadelphia rose rot. *Gard. Monthly.* pp. 211, 212, with figure. July, 1884.

An account of *Peronospora sparsa*, and the means for destroying it.

601. — The onion mold. *First Ann. Rept. Wisconsin Agr. Exp. Station for 1883.* pp. 38-44. Fig. 1-5. Madison, 1884.

An account of *Peronospora Schleidentana, De Bary*, with notes on its occurrence in Wisconsin.

602. — The apple-scab and leaf-blight. (*Fusicladium dendriticum, Wallroth*). *First Ann. Rept. Wisconsin Agr. Exp. Station for 1883.* pp. 45-56. Fig. 6-9. Madison. 1884.

Account of the fungus and details of the ravages caused by it in Wisconsin. See 434*.

603. — Preliminary list of the parasitic fungi of Wisconsin. *Trans. Wisconsin Acad. Sci. Arts, VI.* 106-144 (1-40). 1886.

An enumeration of 271 species, with hosts, localities, and critical notes, including descriptions of 16 new species, one of them credited to Peck and one to Farlow, followed by a host-index. New species given in *Jour. Myc. I.* 13-15. The reprint was issued early in Nov. 1884, the volume of transactions in July, 1886.

604. — The spot disease of strawberry leaves (*Ramularia Tulasnei, Sacc.*) *Second Ann. Rept. Wisconsin Agr. Exp. Station for 1884.* pp. 47-58. Fig. 1-3. Madison. 1885.

Account of the fungus and its distribution in Wisconsin.

605. — Heteroecismal *Uredineae.* *Jour. Myc. I.* 25, 26. Feb. 1885.

A summary of 29 species.

606. — The genus *Conintractia.* *Torr. Bull. XII.* 69, 70. Pl. 50. July, 1885.

Account of the structure of *Ustilago Junci, Schw.*, which is referred to the genus *Conintractia* of Cornu.

607. — The wax-bean fungus. *Cultivator and Country Gentleman.* p. 800. Fig. 1. Oct. 1885.

Account, with figures, of *Gloeosporium Lindemuthianum*.

608. — The grape-rot. *Trans. Miss. Valley Hort. Soc. II.* 223-227. Also in *Trans. Wisconsin State Hort. Soc. XV.* 190-198, with addition of fig. 1-9.

Includes notices of *Peronospora viticola* and *Phoma viticola*, with figures. The pagination of reprint from *Wis. Trans.* is changed a little from original.

609. — The smut of Timothy. *Rept. U. S. Dept. Agr. for 1885.* pp. 87, 88. Pl. 18. Washington. 1886.

An account of *Tilletia striaeformis, Westd.*, with notes on some *Ustilagineae* which may prove injurious to cattle. See 434*.

610. — A yellow opium mould (*Eurotium Aspergillus-glaucus*). *Contrib. Dept. Pharmacy, Univ. of Wisconsin.* No. 2. pp. 5-9. Fig. 1-8. 1886. Reprint without pagination.

Notes on *Eurotium Aspergillus-glaucus*.

Treviranus, Ludolf Christian. Bremen, 18 Sept. 1779. †Bonn, 6 May, 1864.

611. Ueber die Pietra Fungaja und ein verwandtes gebilde aus den Vereinigten Staaten. *Verhandl. Naturhistor. Verein der preuss. Rhein. und Westphal. VI.* 281-289. Pl. 12. 1849.

Includes an account, with figure, of what is apparently a monstrosity of some *Polyporus*, collected by Lieut. Macomb at Grand Traverse Bay, Lake Michigan.

Tuckerman, Edward. Boston, 7 Dec. 1817. †Amherst, Mass., 15 March, 1886. See FRIES, E. M.

— and Frost, C. C.

612. A catalogue of plants growing without cultivation within thirty miles of Amherst College. 8°. pp. vi. 98. Amherst, 1875.

The fungi by Frost, pp. 62-97, include a list of over 1100 species, with habitats. In the determination of the species the author was aided by M. A. Curtis, and some of the names represent species published later in Berkeley's Notices of North American Fungi (see title 42), and some are manuscript names of Curtis and Frost, which were never published. A number of species are referred to C. H. Peck, and published by him elsewhere. See PECK, C. H. The names in this catalogue are frequently misspelled.

Tulasne, Charles. Langeais, 5 Sept. 1816. †Hyères, 28 Aug. 1884.

Tulasne, Louis René. Azay-le-Rideau, France, 12 Sept. 1815. †Hyères, 22 Dec. 1885.

613. —, L. R. Observations sur l'organisation des *Trémellinées*. *Ann. Sci. Nat. Bot.* 3 ser. XIX. 193-231 (1-39). Pl. 10-13. 1853.

Includes a brief reference to *Podisma macropus*, Schw.

614. — Mémoire sur l'ergot des *Glumacées*. *Ann. Sci. Nat. Bot.* 3 ser. XX. 5-56. Pl. 1-4. 1853.

Has very brief references to American authors on the subject.

614^a. —, L. and C. R. Recherches sur l'organisation et le mode de fructification des champignons de la tribu des *Nidulariées*, suivies d'un essai monographique. *Ann. Sci. Nat. Bot.* 3 ser. I. 41-107. Pl. 3-8. 1844.

Includes descriptions of United States species, one new species figured.

615. — Mémoire sur les *Ustilaginées* comparées aux *Urédinées*. *Ann. Sci. Nat. Bot.* 3 ser. VII. 12-127. Pl. 2-7. 1847.

Includes observations on *Testicularia* and *Ustilago Schweinitzii* (*Uredo Zeae*, Schw.), from the United States.

616. — Fungi *Hypogaei*. Histoire et monographie des champignons *Hypogés*. Folio. pp. xix. 222. Pl. 22, 9 colored. Paris. 1851. 2d edition, pp. xxiv. 222. Pl. 21. Paris. 1863?

Of the first edition of this sumptuous work only 100 copies were printed, and each copy was numbered. A second edition was afterwards issued same as the first in all respects, except that there is another preface. The date of issue of second edition is uncertain. The title-page bears the date 1853, but the preface of second edition is dated June, 1862. Probably the 1853 of title-page should be 1863. This work includes descriptions of American genera of Bosc and Schweinitz, as *Arachnion*, *Hyperrhiza*, etc.

617. — Selecta fungorum carpologia, ea documenta et icones potissimum exhibens quae varia fructuum et seminum genera in eodem fungo simul aut vicissim adesse demonstrant. Folio. Vol. I. xxviii. 242. Pl. 5. Paris, 1861. — Vol. II. xix. 319. Pl. 34. 1863. — Vol. III. xvi. 221. Pl. 22. 1865.

First volume includes *Erysiphei*, the second *Xylariet*, *Valsei*, and *Sphaeriet*, and the third *Nectriet*, *Phacidiet*, and *Pezizet*. This classic work does not treat specially of American fungi, but there are many critical notes and references to species of this country scattered through the text.

Tully, William.

618. Reduction of all the genera of plants contained in the *Catalogus Plantarum Americae Septentrionalis* of the late Dr. Muhlenberg to the natural families of Mr. De Jussieu's system. For the use of the gentlemen who attended the course of elementary and philosophical botany in Philadelphia in 1815. Philadelphia. 1815.

Has an enumeration of 47 genera of fungi, p. 5, including *Ereunetum*.

United States. Department of Agriculture. See AGRICULTURAL REPORTS.

— Geological Surveys. See BILLINGS, J. S. See HAYDEN, F. V. See PARRY, C. C. See PORTER, T. C.

Venténat, Etienne Pierre. Limoges, 1 March, 1757. †Paris, 13 Aug. 1808.

619. Dissertation sur le genre *Phallus*. *Mém. de l'Institut. Nat. (Classe Sci. Math. et Phys.)* I. 503-523. Pl. 7. Paris. 1798.

Includes an account of *Phallus indusiatus* from Guiana, with figures, to which species some United States specimens have since been referred, but no mention made of United States specimens by this author.

Viala, Pierre, and Ravaz, L.

620. Mémoire sur une nouvelle maladie de la vigne. Le Black Rot (*pourriture noire*). 8°. pp. 62. Pl. 4. Montpellier. 1886.

Gives notes on structure and synonymy of *Phoma uvicola*, B. and C., and *Sphaeria Bidwellii*, Ellis.

621. — Sur de nouvelles espèces du genre *Phoma* se développant sur les fruits de la vigne. *Bull. Soc. Bot. France*, XXXIII. lxi-lxvii. 1886. Not issued until 10 Jan. 1887.

Includes details of *Phoma uvicola*, B. and C.

Vize, John Edward. London, Eng., 7 March, 1831.

622. Californian Fungi. *Grev. V.* 109-111. March, 1877. — VII. 11-13. Sept. 1878.

Notices of 66 species collected by H. W. Harkness, of which 21 are described as new.

Vogolino, Pietro. Turin, 23 March, 1864.

623. Sul genere *Pestalozzia* saggio monografico. *Atti. Soc. Veneto-Trentina Sci. Nat.* IX. 209-243 (1-37). Pl. 8-10. 1885. Issued 1886.

A description of all known species of the genus, being a revision of the species given in the third volume of Saccardo's *Sylloge*. Besides the revised descriptions, there are also figures of some North American species.

Voyle, Joseph. See RILEY, C. V.

Walter, Thomas. Hampshire, England, 1740. †Carolina, 1788.

624. Flora Caroliniana secundum systema vegetabilium perillustris Linnaei digesta: characteres essentialis naturalis et differentias veras exhibens: cum emendationibus numerosis: descriptionum antea evulgaratarum: adumbrationes stirpium plus mille continens, nec non generibus novis non paucis, speciebus plurimis novisque, ornata. 8°. pp. 263. Pl. 1. London. 1788.

Describes, pp. 260-263, 7 *Agarici*, 5 *Boleti*, 1 *Hydnum*, 1 *Phallus*, 1 *Clavaria*, 4 *Lycoperdon*, and 1 unnamed species.

Walsh, Benjamin Dann. Frowe, Worcester-shire, England, 21 Sept. 1808. †Rock Island, Ill., 18 Nov. 1869.

625. Black Knot. *Practical Entomologist*, I. 48-51. 26 March, 1866. — II. 63. March, 1867.

Arguments to show that this disease is caused by a fungus and not by an insect.

626. — A plant growing out of an insect. *Practical Entomologist*, II. 116. Aug. 1867.

Reports a fungus growing out of a May-bug in Iowa.

— and RILEY, C. V.

626^a. Fungoid growths. *Am. Ent.* I. 91, 92. Jan. 1869.

Notice of the white grub fungus, with remarks by W. H. Edwards.

Watson, Sereno. East Windsor Hill, Conn., 1 Dec. 1826. See BILLINGS, J. L.

Watt, David A. P.

627. A provisional catalogue of Canadian Cryptogams. *Canadian Naturalist and Geologist*, II. new series, 390-404. Oct. 1865.

On pp. 390-392 is a list of 152 species of fungi from the collections of Dr. W. P. MacLaggan, determined by Berkeley, and of D. A. Watt, determined by Curtis. The species are arranged alphabetically, and names of authorities are not given.

Wilkes Expedition. See CURTIS, M. A., and BERKELEY, M. J.

Wingate, Harold. Philadelphia, 25 August, 1852.

628. A new genus of *Myxomycetes*. *Jour. Myc.* II. 125, 126, with figure. Nov. 1886.

Characters of the new genus *Orthotricha* and description of *O. microcephala*.

Winter, Georg. Leipsic, 1 Oct. 1848. See EXSICCATI in supplement. See HEDWIGIA.

629. Bemerkungen ueber einige *Uredineen*. *Hedwigia*, XIX. 17-29. Feb. 1880.

The *Uredo Aspidiotus* of Peck referred to *U. Filicum*.

630. — Eine neue *Chrysomyza*. *Bot. Centralblatt*, V. 250, 251. Feb. 1881.

The *Uredo pirolata*, Koernicke, from New York, referred to *Chrysomyza*.

631. — Ueber die gattung *Harknessia*, Cooke. *Hedwigia*, XXII. 19-21. Feb. 1883.

Gives notes on *H. Eucalypti*, Cooke, and other exotic species.

632. — New North American Fungi. *Torr. Bull.* X. 7, 49, 50. Jan., May, 1883.

First part has descriptions of *Sorosporium Ellisii*, *Ustilago Vilfae*, and *Gonatobotrys maculicola*, also given in *Hedwigia*, XXII. 1, 2. Second part has 5 species from Illinois and Kentucky, also given in next title.

633. — Fungi nonnulli novi. *Hedwigia*, XXII. 1-3. Jan. 1883.

Includes 3 species from the United States. See last title.

634. — Ueber einige Nordamerikanische pilze. *Hedwigia*, XXII. 67-72, 129-131. May, Sept. 1883.

First part has descriptions of 8 new species, 5 of them same as in last title, besides notes on *Ascomycetella* and several *Uredineae*. Second part has descriptions of 2 new species, and notes on *Entyloma Physalidis* and *Puccinia Thwaitesii*.

635. — Mycologische Notizen. *Hedwigia*, XXIII. 7-9. Jan. 1884.

Has notes on *Puccinia heterospora*, *Entyloma Physalidis*, and *Cercospora fusco-virens*.

636. — New North American Fungi. *Jour. Myc.* I. 101, 102. Aug. 1885.

Descriptions of *Sphaerella Earliana*, *Fusicladium effusum*, *Darlucia interseminata*, and *Doassansia decipiens*.

637. — Fungi novi Missourienses. *Jour. Myc.* I. 121-126. Oct. 1885.

Characters of 25 new species collected by C. H. Demetrio, same as in title no. 640.

638. — Fungi exotici III. *Hedwigia*, XXV. 92-104. June, 1886.

Notes the occurrence of *Arthrosporium parasiticum*, Winter, in Florida.

639. — Pilze: in Dr. L. Rabenhorst's Kryptogamen-Flora von Deutschland, Oesterreich und der Schweiz. Zweite Auflage. 8°. Band I. Erste Abtheilung, pp. 924, and index. *Schizomy-*

cetes, *Saccharomycetes*, and *Basidiomycetes*. Leipsic. 1884. — Zweite Abtheilung, pp. 880. *Pyrenomycetes*. To be continued.

This well-known work is issued in parts, the first of which appeared in 1881. The complete first volume has the date 1884. Of the second volume, there had appeared prior to 1887, 800 pages, and the volume is not yet completed. The work is illustrated with numerous woodcuts of the genera and one colored chart. Occasional references are made to American writers in the synonymy.

— and **Demetrio**, C. H.

640. Beiträge zur pilzflora von Missouri. Series I. *Hedwigia*, XXIV. 177-214 (1-37). Oct. 1885.

An enumeration of 350 species, with host-plants and synonymy in some cases, 25 of the species described as new, one attributed to Bresadola. See title no. 637.

Woronin, Max.

641. Beitrag zur kenntniss der *Ustilagineen*. 4°. pp. 35. Pl. 4, partly colored. Frankfort. 1882.

This paper forms the fifth part of "Beitraege zur Morphologie und Physiologie der Pilze," by De Bary and Woronin. *Sorosporium Astragali*, Peck, and *S. Desmodii*, Peck, are referred to the genus *Thecaphora*.

Wyman, Jeffries. Chelmsford, Mass., 11 Aug. 1814. †Bethlehem, N. H., 4 Sept. 1874.

— and **Berkeley**, M. J.

642. On a minute fungus, *Podisoma macropus*, growing on *Juniperus Virginiana* in North America, by Dr. Wyman in a letter addressed to Sir W. J. Hooker; with some additional remarks by the Rev. M. J. Berkeley. *London Jour. Bot.* IV. 315-319. Pl. 12. Fig. 6. 1845.

A letter, with an account of gross and microscopic characters of the common cedar apple of New England, with figure of the fungus, *Podisoma macropus*, and a note by Berkeley on its botanical relations.

Zabriskie, Jeremiah Lott. Flatbush, L. I., 3 Feb. 1835.

643. A caterpillar fungus from New Zealand and some related species of the United States. *Jour. N. Y. Micr. Soc.* I. 89-94. Fig. 1-6. April, 1885.

Includes descriptions and figures of *Torrubia militaris*, *T. Ravenelii*, and *T. clavulata* of the United States.

644. — Fruit of the fungus *Uncinula flexuosa*, Peck, on leaves of the horse-chestnut. *Jour. N. Y. Micr. Soc.* II. 144, 145. Dec. 1886.

645. — Fruit of the fungus *Microsphaera extensa*. *Jour. N. Y. Micr. Soc.* II. 149, 150. Dec. 1886.

ADDENDA.

Bail, Theodor. See NEES VON ESENBECK, T. F. L.

Bischoff, Gottlieb Wilhelm. Durkheim, 1797. †Heidelberg, 11 Sept. 1854.

646. Lehrbuch der botanik. 8°. Vol. I.-III., and supplement. Stuttgart. 1834-1840.

Portion of "Naturgeschichte der drei Reiche." The plates which belong to this work form a separate quarto, the index being in vol. II. Pl. 7, fig. 173, represents *Mitremyces cinnabarinus*.

Brendel, F. Add to title no. 76: List of species also given in the *Pharmacist*, XV. 263-268, 291-299. July, Aug. 1882.

Catesby, Mark. 1680. †London, 23 Dec. 1749.

647. The natural history of Carolina, Florida, and the Bahama Islands. f°. Vol. I., II. London. 1731-43. 2d ed. 1754. 3d ed. 1771.

Vol. I. pl. 36, has a figure called "fungoides capitulo intorto, Toad stool," not recognizable.

Copeland, Robert Morris.

648. Edible fungi. *Atlantic Monthly*, XXXI. 223-229. Feb. 1873.

Popular article on the subject, without special reference to American species.

Crozier, Arthur Alger. Georgetown, Ottawa Co., Mich., 22 Sept. 1856.

649. Notes on black-knot. *Bot. Gaz.* X. 368, 369, Sept. 1885; and *Jour. Myc.* I. 142.

Remarks on the date of the ripening of the spores in this species.

Duggan, J. R. See SEDGWICK, W. T.

Hubbard, Henry Guernsey. Detroit, Mich., 6 May, 1850.

650. Insects affecting the orange. Report on the insects affecting the culture of the orange and

other plants of the *Citrus* family, with practical suggestions for their control or extermination, made, under the direction of the Entomologist, by H. G. Hubbard. *U. S. Dept. Agr. Division of Entomology*. 8°. pp. x. 227. Pl. 14. Washington. 1885.

In the introduction, pp. 1-4, pl. 2, is a notice of die-back, bark-fungus, foot-rot, and smut, due to the growth of fungi.

Osborn, Herbert.

651. An epidemic disease of *Caloptenus differentialis*. *Am. Nat.* XVII. 1286, 1287. Dec. 1883.

Account of a disease caused by *Entomophthora Calopteni*, Bessey, with a note by C. V. Riley. Paper first read before the Iowa Academy of Science, 27 Sept. 1883. See title no. 63, where p. 1286, which belongs to present title, is incorrectly cited.

Ott, Isaac. Northampton Co., Pa., 30 Nov. 1847.

652. Poisonous mushrooms. *Jour. of Nervous and Mental Diseases*, IV. 48-53. Chicago. Jan. 1877.

A general account of the toxicological action of fungi, including experiments on the action of muscarin, especially those of Smiedeberg.

Pech.

653. Catalogue of the United States plants in the Department of Agriculture.

The above is the title of a very rare pamphlet found in a few libraries. It has no value except as a literary and botanical curiosity. The author was at one time employed as botanist at the United States Agricultural Department, and prepared a list of plants, pp. 27, which was distributed as a circular, but was never printed in any government publication. It is said to have been suppressed in consequence of the very numerous errors it contains. On pp. 26, 27 is a list of 72 fungi, apparently from Missouri, 31 of them said to be new species. There is no title-page, and the date, which is not printed but written, is Nov. 1, 1866.

CORRIGENDUM.

In place of the note following title no. 174, substitute the following title:—

174^a. *Icones Fungorum hucusque cognitorum*. Abbildungen der pilze und schwaemme. f°. Vol. I.-VI. Prague. 1837-1854.

A work with figures and descriptions of many species of fungi. Vol. VI., published after Corda's death, was edited

by J. B. Zobel, and contains a small number of species from North America. A considerable part of the edition of the first five volumes was destroyed in the great fire at Prague, and complete sets of the original edition are now very rare. The remaining copies of vol. VI. were purchased by R. Friedlaender & Sohn, of Berlin, who have reproduced the first five volumes by photo-lithography, and most copies now offered for sale have only the sixth volume of the original edition.

SUPPLEMENT.

FUNGI EXSICCATI AM.-SEPTENTRIONALIS, A LIST OF PUBLISHED SETS OF DRIED FUNGI, WHICH INCLUDE SPECIMENS FROM THE UNITED STATES.

Fungi Caroliniani Exsiccati. Fungi of Carolina, illustrated by natural specimens of the species by H. W. Ravenel. Fasc. 1, 1852; 2, 1853; 3, 4, 1855; 5, 1860. Charleston, S. C.

Each fasciculus contains 100 specimens, bound in quarto, with a systematic index; and 5 contains an alphabetical index of the whole series. Each fasciculus is numbered separately. Only 30 copies of this series were issued and complete sets are now very rare. The specimens were mostly collected by Ravenel himself, and M. A. Curtis aided in the determination of species. For notices of this work, see *Am. Jour. Sci. Arts*, XVI. 2 ser. 129; XVII. 285; XX. 284; XXIII. 439; and Charleston *Med. Jour. and Rev.* VII. 690 *et seq.*

Fungi Americani Exsiccati. H. W. Ravenel and M. C. Cooke. Cent. 1-8. 1878-1882.

This work includes fungi collected by Ravenel principally in South Carolina, Georgia, and Texas. The specimens were determined by Cooke and issued in centuries on loose sheets of quarto size, 4 specimens on each sheet, similar in form to *Fungi Britannici*, 2d edition. About 30 sets were issued, the place of publication being London. The centuries were issued two at a time, as follows: 1 and 2, 1878; 3 and 4, 1879; 5 and 6, 1881; 7 and 8, 1882. There are no indexes accompanying the centuries, but an enumeration of the species, with comments and descriptions of the new species in this series, will be found as follows: *Grevillea*, VI. 129-146; VII. 32-35, 43-54; XI. 106-111; XII. 22-33; — *Hedwigia*, XVII. 37-40; — *Britten's Jour. Bot.* XXI. 67-71, 106-110, 136-139; — *Jour. Roy. Hort. Soc. V.* new series, 92. See titles here given, nos. 129, 135, 154.

North American Fungi. Edited and published by J. B. Ellis. Newfield, N. J. Cent. 1-15. 1878-1885.

SECOND SERIES. Edited and published by J. B. Ellis and B. M. Everhart. Cent. 16, 17. Newfield. 1886. To be continued.

This series contains specimens bound in quarto form, with an index to each century. There is also an "Alphabetical Index of Cent. 1-10," 7 pages, prepared by W. C. Stevenson, an "Alphabetical Index of Cent. 1-15," compiled by B. M. Everhart, and an "Index of habitats" of Cent. 1-10, compiled and published by W. C. Stevenson. Two centuries have been issued annually, and the edition, which consists of 50 copies, has up to present date all been sold.

Cent. 3, 11, 15 contain principally *Uredineae*, *Ustilagineae*, and *Peronosporae*. For review, see title no. 279. Cent. 1, 5, 9 are principally *Ascomycetes*. Cent. 12 and 17 largely *Septorhizae*, *Phyllostictae*, and their allies. Cent. 13 and 16, *Cercosporae*, *Ramulariae*, and related genera. See reviews as follows: *Hedwigia*, XIX. 124; XX. 100; XXI. 110; XXII. 124; XXV. 44; *Am. Nat.* XV. 652; XVII. 873; — *Jour. Myc.* I. 83. See title no. 22. Notices of this series, with lists of new species, also given in current numbers of *Revue Mycologique*.

Herbarium Vivum Mycologicum sistens fungorum per totam Germaniam crescentium collectionem perfectam.

This series of fungi exsiccati includes 20 centuries, of which the first was issued at Berlin in 1832, by J. F. Klotzsch. A notice of the first fasciculus appeared in *Linnaea, Literatur-Bericht für 1833*, p. 17. Two parts were issued by Klotzsch, but the remaining parts were issued by L. Rabenhorst under the title "Klotzschii Herbarium vivum mycologicum," etc. Dresden. 1842-1855. For notice of Rabenhorst in connection with this series, see *Linnaea*, 1842, pp. 333, 334. The centuries issued by Rabenhorst are bound in quarto covers. There appeared two indexes: "Index in Klotzschii Herbarium vivum mycologicum," Cent. 9; and "Index alphabeticus et conspectus systematius in Klotzschii herbarium mycologicum," curante Ludovico Rabenhorst, pp. 12, 1851,

including the first 14 centuries. Complete copies of this series are very rare, and very few have the first three centuries complete, since, apparently, the specimens of the first two centuries at least had the specimens loose and not bound like the later centuries.

Klotzschii Herbarium Vivum Mycologicum, etc. Editio nova, cura Dr. L. Rabenhorst. Cent. 1-8. Dresden. 1855-1858.

A continuation of the previous series and similar in form. An index on a loose sheet with each century.

N. B. At some subsequent period what purported to be sets of this series were sold by Rabenhorst, but the species do not correspond to those of the original issue. The title-pages of these spurious sets bear dates from 1845 to 1859, without any regular order, and are evidently nothing but old titles left over from this and the preceding series.

Fungi Europaei Exsiccati. Klotzschii herbarii vivi mycologici continuatio. Editio nova. Series secunda. Cent. 1-36. Dresden. 1859-1886. To be continued.

A continuation of the preceding and of the same form. Previous to Cent. 27 there were no indexes, since then an alphabetical index bound with each century. This series was edited by Rabenhorst until his death and since then, beginning with Cent. 27, the editor has been G. Winter. At the same date the title was changed to "Fungi Europaei et Extraeuropaei." With Cent. 21, the numbering of the title-pages began again with 1, the number of the whole series being also retained; and it is by this latter number that the centuries are designated. Although the title-pages bear the name Dresden, the later centuries have in reality been issued from Leipzig. The number of copies issued is somewhat over 100.

N. B. What is sometimes offered for sale as Klotzsch's Herbarium vivum includes only the Fungi Europaei. In many sets Cent. 26, which was in preparation at the time of Rabenhorst's death but not issued until later, is either wanting or imperfect. The only part of the whole series which contains American specimens is that from Cent. 27 on. The following notices of the centuries in which American numbers occur may be consulted in *Hedwigia*. Cent. 27, 4 species from United States, vol. XXI. 5-12. Cent. 28 and 29, 8 species, vol. XXII. 9-15; Cent. 30, 37 species, vol. XXIII. 173-178, 180-185; Cent. 31 and 32, 53 species, vol. XXIII. 164-175; Cent. 33 and 34, 83 species, vol. XXIV. 252-264; Cent. 35 and 36, 99 species, vol. XXV. 257-263; XXVI. 24-35.

Ascomyceten. In getrockneten exemplaren herausgegeben von Dr. Med. Rehm. Fasc. 1-17. Nos. 1-850. Regensburg. 1873-1885. To be continued.

Each fasciculus of this series is composed of 50 specimens contained in loose envelopes or boxes, and only 25 copies were issued. The following numbers are from the United States, collected principally by J. B. Ellis: 269, 287, 303, 307, 310, 311, 314, 315, 316, 318, 323, 329, 337, 338, 347, 360, 361, 363, 364, 369, 381, 394, 423, 431, 438, 441, 446, 447, 464, 465, 473, 522, 609, 770, 822, 845, 846, 849.

For notes on species in this collection, see title no. 518. Also, see Winter, "Diagnosen und Notizen zu Rehm's Ascomyceten," in *Flora*, LV. (XXX.) 508-511, 523-527, and 542-544. Also, *Grevillea*, II. 157, V. 37, etc. Enumeration of species in the earlier fasciculi are given in *Flora*, 1873, 1874, 1875.

Mycotheca Universalis cura F. de Thuenen. Cent. 1-23. 1875-1884.

A collection of specimens in envelopes attached to loose sheets with quarto covers. Cent. 1-5 were issued at Baireuth, 6-18 at Klosterneuburg, 19-22 at Vienna, and 23 at Görz. There was an alphabetical index of the species in Cent. 1-12, 8^o, pp. 35, issued in 1879.

There are specimens from the United States in each of the centuries, in all 310 species, and to some of their labels are

added descriptions and notes, which are also given in *Flora* under the heading "Diagnosen zu Thuemen's Mycotheca Universalis," as follows: 1876, 203-208; 1877, 169-174, 204, 208; 1878, 87-94, 104-112; 1879, 94-96, 103-110, 123-128, 137-139; 1880, 312, 322, 323-332; 1881, 237-239, 251-255, 266-272, 297-303. See notice of Cent. 1 and 2 in *Torr. Bull.* VI. 47-48, and of Cent. 13 and later parts in *Rev. Myc.* 1879 *et seq.*, *Am. Nat.* XVI. 321.

Herbarium Mycologicum Oeconomicum. Die für die land-, forst- und hauswirthschaft, den gartenbau und die industrie schädlichen resp. nützlichen pilze in getrockneten exemplaren. Edited by F. von Thuemen. Fasc. 1-15. Nos. 1-750. Teplitz, Baireuth, Klosterneuburg. 1872-1880.

We have not seen this collection, which includes a small number of species from the United States, collected by Ellis, Peck, and Ravenel.

Fungi Gallici Exsiccati. Edited by C. Roumeguère. Cent. 1-40. Toulouse. 1879-1886. To be continued.

This collection includes specimens attached, generally in envelopes, to loose sheets with quarto covers. There is an "Index alphabétique des genres, espèces et synonymes des Fungi Gallici Exsiccati, Cent. 1-25, 1879-1883," taken from *Revue Mycologique*, V. 137-164. July, 1883. The following numbers of this collection are from the United States: 2006, 2097, 2327, 2330, 2390, 2429, 2453, 2465, 3412, 3413, 3414, 3421, 3470, 3478, 3595, 3839, 3840, 3841, 3842, 3845, 3859, 3860, 3861, 3862, 3864, 3865, 3866, 3867, 3873, 3876, 3877, 3879, 3881, 3882, 3921, 3926, 3927, 3961, 3976, 3977, 3994, 4000. Notices of the species in this collection are given in the current numbers of the *Revue*. Those of the numbers from the United States are as follows: IV. 96-105; V. 6-30; VII. 215-224; VIII. 14-23, 190-200; IX. 19-29.

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